

**WELDING
CATALOG 2012**



**SHARK
WELDING**

Professional Welding and Abrasives Catalog

INTRODUCTION



Shark Abrasives, Professional Welding Products and Accessories

Introduction

Our products have been designed with the professional welder in mind. All products are intended for professional use, from the abrasives to the wire/electrodes and equipment.

We have been a supplier/manufacturer to the Automotive Aftermarket for almost 30 years and your complete satisfaction is our goal. Our exciting packaging is bound to stand out in any store display and the trilingual aspect will offer most customers the optimum in purchasing accuracy.

Our small cut-off wheels are manufactured in Rockford, Minnesota and will give you an edge in performance and endurance. The other abrasives and products are manufactured in the USA, Taiwan, Europe, China and Pakistan to our specifications. We insure that our quality levels meet our customers' most demanding specifications.

Our full line of Welding Supplies and Accessories includes welders, electrodes, wire, abrasives, accessories for cutting and welding as well as helmets, goggles, glasses, and face shields. We also offer welding clothing, blankets, screens, and many other accessory items to complement our welding line. If there is something missing, please feel free to call and ask as we are always expanding our product offering.

If you are not satisfied for any reason, please feel free to contact us at our toll-free number 800-537-4275. We always welcome any suggestions on how we can improve our quality or service to you.

Please feel free to register any requests, complaints or compliments to our email address which is sharkind@aol.com. We look forward to servicing your needs for many years to come!

Shark is a registered trademark. Any use of the name without express written permission is prohibited. Any reproduction of this catalogue without the permission of Shark is prohibited.

Shark is a manufacturer/repackager of its products. Any mention of any other manufacturer in this catalogue is only for reference of part number and is not intended to imply that Shark products are made by or for the mentioned manufacturer.

No returns will be accepted without prior written approval from the company. All stock returns must be accompanied by an off-setting order of greater value by 50% or more.

Any item deemed defective must be inspected at our plant before repair or refund will be issued. Any item that has been abused or modified will not be warranted, even if it is under warranty at the time of return.





TABLE OF CONTENTS

WELDERS PG.4-10

MIG Welders	4-8
MIG Cart	9
MIG Spool Gun	9
Plastic Welder	10

SAFETY GEAR PG.11-29

Welding Helmets	11-15
Lenses	16-17
Face Shields	18
Headgear	19-20
Goggles.....	21-22
Glasses	23
Respirators/Masks.....	24-25
Apparel	26-29
Screens/Blankets	29

CUTTING KITS PG.30-31

Victor Style Cutting Kits	30
Tote Kit.....	31
Cylinder Trucks	31

TIPS & NOZZLES PG.32-36

Airco Style Tips.....	32
Harris Style Tips	32
Marquette Style Tips	33
Purox Style Tips	33
Smith Style Tips.....	33-34
Victor Style Tips	34-35
Nozzles	36
Contact Tips	36

ROD & WIRE PG.37-43

Electrodes.....	37-40
Rods	40-41
Storage Tube	41
Wire.....	42-43
Flux	43

ACCESSORIES PG.44-56

Surface Protectants	44
Spark Suppressor.....	45
Electrode Holders	46
Ground Clamps	46
Chipping Hammers	47
OxyAcetylene Lighters	48
C/F Clamps	49
Magnets	50
Receptacles	51
Cable Lugs.....	52
Tank Adapters.....	52
Cylinder Wrench	53
Hose Accessories	54-55
Oxygen Acetylene Gauges	55
Regulators	56

ABRASIVES PG.57-71

Cut-Off Wheels.....	57-59
Mandrels	59
Grinding Wheels.....	60-61
Mounted Points	62
Twist-Lock Grinding Discs	63
Emery Cloth	64
Surface Conditioning Discs	65
Sanding Discs	66
Flap Wheels.....	67
Flap Discs	68-69
Carbide Burs	70-71

BRUSHES PG.72-77

Handheld.....	72
Cleaning	73
End Brushes	74
Circular Wheels	74-75
Wire Cup Brushes	75
Knotted Wire Wheels	76
Adaptors	77

WELDERS



Light Duty Welders

Machine Specifications

Maximum Output	130 Amps
Duty cycle	65 Amps at 20%
Current range	20-130 Amps
Wire diameter range	.023-.030
Input voltage/Settings	115/4
Max welding thickness	3/16"
Shipping weight	82 lbs

Part No. 17010 MIG 140EN Kit



Kit Includes:

- 6 ft. Tweco style mig torch
- 6 ft. Grounding cable and earth clamp
- .023 & .030 Contact tips
- Chipping Hammer
- 1/2 lb., .030 Flux core wire
- Dual gauge regulator
- Gas hose and 2 hose clamps
- Welding cart
- Welding gloves
- Hand held welding shield

The Shark 115/120 Volt do-it-yourself welder is perfect for the starter or infrequent user. This affordable welder offers many easy-to-use features and comes with additional accessories. It can be used with or without gas. It is capable of welding up to 3/16" thick metal and is great for home or automotive infrequent users. The 130 Amp welder is offered in 2 versions; with or without a complete accessory package. The unit features a dual groove drive roller for ease of welding with either .023 or .030 wire. (See breakdowns below.)

Part No. 17020 MIG 140EN (Welder without kit)



The Shark 115/120 Volt Do-it-yourself welder includes the following:

- 6 ft. Tweco style mig torch
- 6 ft. Grounding cable and earth clamp
- .023 & .030 Contact tips
- Chipping Hammer
- 1/2 lb., .030 Flux core wire
- Dual gauge regulator
- Gas hose and 2 hose clamps
- Shipping weight: 53 lb.



WELDERS

Light Duty/Professional Welders

The new Shark 230 Volt Mig welder is a do-it-your-selver's grade welder; but not recommended for Industrial applications. This welder achieves 145 Amps at 15% duty cycle. It is capable of welding up to 1/4" thick metal.

This affordable welder offers many easy-to-use features and comes with additional accessories. It can be used with or without gas. The 180 Amp welder is offered in 2 versions; with or without a complete accessory package. The unit features a dual groove drive roller for ease of welding with either .023 or .035 wire. (See breakdowns below.)

Machine Specifications

Maximum Output	180 Amps
Duty cycle	145 Amps at 15%
Current range	20-180 Amps
Wire diameter range	.023-.035
Input voltage/Settings	230/5
Max welding thickness	1/4"
Shipping weight	99.2 lbs.

Part No. 17011 MIG 190EN Kit

Part No. 17021 MIG 190EN (Welder without kit)



The Shark 230 Volt Do-it-your-self welder includes the following:

- 6 ft. Tweco style mig torch
- 6 ft. Grounding cable and earth clamp
- .035 & .023 Contact tips
- Chipping Hammer
- 1/2 lb., .030 Flux core wire
- Dual gauge regulator
- Gas hose and 2 hose clamps
- Shipping weight: 70 lb.



Kit Includes:

- 6 ft. Tweco style mig torch
- 6 ft. Grounding cable and earth clamp
- .035 & .023 Contact tips
- Chipping Hammer
- 1/2 lb., .030 Flux core wire
- Dual gauge regulator
- Gas hose and 2 hose clamps
- Welding cart
- Welding gloves
- Hand held welding shield

WELDERS



Light Duty/Professional Welders

Machine Specifications

Maximum Output	135 Amps
Duty cycle	80 Amps at 20%
Current range	20-100 Amps
Wire diameter range	.023-.035
Input voltage/Settings	115/4
Max welding thickness	3/16"
Shipping weight	59 lbs.

Part No. 17012 MIG 135 Kit



Kit Includes:

- 6 ft. Tweco style mig torch
- 6 ft. Grounding cable and earth clamp
- .035 & .023 Contact tips
- Chipping Hammer
- 1/2 lb., .030 Flux core wire
- Dual gauge regulator
- Gas hose and 2 hose clamps
- Welding cart
- Welding gloves
- Helmet

The Shark 115/120 Volt welder is an upgrade from our MIG 140EN. Designed for the Light/Professional user, this affordable welder offers many easy-to-use features and comes with additional accessories. It can be used with or without gas. It is capable of welding up to 3/16" thick metal and is great for farm or automotive users. The 135 Amp welder is offered in 2 versions; with or without a complete accessory package. The unit features a dual groove drive roller for ease of welding with either .023 or .035 wire. (See breakdowns below.)

Part No. 17022 MIG 135 (Welder without kit)



The Shark 115/120 Volt Do-it-yourself welder includes the following:

- 6 ft. Tweco style mig torch
- 6 ft. Grounding cable and earth clamp
- .035 & .023 Contact tips
- Chipping Hammer
- 1/2 lb., .030 Flux core wire
- Dual gauge regulator
- Gas hose and 2 hose clamps
- Shipping weight: 59 lb.



WELDERS

Light Duty/Professional Welders

The Shark 230 Volt Mig welder is the light/professional grade welder; but not recommended for Industrial applications. It can be used with or without gas. It is capable of welding up to 1/4" thick metal. This heavy duty welder achieves 130 Amps at 20% duty cycle. It is offered in 2 versions; with or without a complete accessory package. The unit features a dual groove drive roller for ease of welding with either .023 or .035 wire. See breakdown below.)

Machine Specifications

Maximum Output	180 Amps
Duty cycle	145 Amps at 15%
Current range	20-180 Amps
Wire diameter range	.023-.035
Input voltage/Settings	230/5
Max welding thickness	1/4"
Shipping weight	99.2 lbs.

Part No. 17014 MIG 175 Kit

Part No. 17023 MIG 175 (Welder without kit)



The Shark 230 Volt Do-it-yourself welder includes the following:

- 6 ft. Tweco style mig torch
- 6 ft. Grounding cable and earth clamp
- .035 & .023 Contact tips
- Chipping Hammer
- 1/2 lb., .030 Flux core wire
- Dual gauge regulator
- Gas hose and 2 hose clamps
- Shipping weight: 66 lb.



Kit Includes:

- 6 ft. Tweco style mig torch
- 6 ft. Grounding cable and earth clamp
- .035 & .023 Contact tips
- Chipping Hammer
- 1/2 lb., .030 Flux core wire
- Dual gauge regulator
- Gas hose and 2 hose clamps
- Welding cart
- Welding gloves
- Helmet

WELDERS



Professional Welders



Part No. 17024 SW-MIG 140

Machine Specifications

Maximum Output	140 Amps
Duty cycle	90 Amps at 30%
Current range	20-130 Amps
Wire diameter range	.023-.035
Input voltage/Settings	115/5
Max welding thickness	1/4"
Shipping weight	44 lbs.

The new Shark SW-140 Mig welder (110 volt) is the Medium Duty to Professional grade welder. This upgraded welder offers a 10 foot removable MIG torch with Tweco style replacement parts. It features a 10 foot detachable ground cable. It will weld up to 1/4" thick metal and is great for automotive users. (See accessories below)



Part No. 17025 SW-MIG 200

Machine Specifications

Maximum Output	180 Amps
Duty cycle	130 Amps at 30%
Current range	20-195 Amps
Wire diameter range	.023-.035
Input voltage/Settings	230/5
Max welding thickness	1/4"
Shipping weight	44 lbs.

The new Shark 230 volt Mig welder is our top-of-the-line Professional grade welder. This heavy duty welder achieves 130 Amps at 30% duty cycle. It will weld up to 1/4" thick metal. It includes a 10 foot detachable Tweco Style Mig gun compatible with Tweco replacement parts and 10 foot removable ground clamp. The unit includes a dual groove drive roller for ease of welding. (See accessories below)

Accessories For 17024/17025 include:

- 10 ft. Removable Tweco style MIG torch compatible with Tweco style replacement parts
- 10 ft. Removable ground cable
- 3 - .030 Contact tips
- 1 lb. .030 Mig wire
- 1 lb. .030 Flux core wire
- Dual gauge regulator
- Gas hose
- Dual groove drive roll
- 11 lb. Spool adapter



WELDERS

Part No. 14483 MIG Welding Cart

MIG welding cart for easy storage and use of mig welders. Durable steel construction will give you years of use. Chain included with the cart for easy securing of gas bottles. Assembly required.

ITEM No.

14483

DIMENSIONS

11" Wide x 28" High x 28" Deep

Wt.

30 lbs.



Welding Cart/Spool Gun

Part No. 17015 MIG Welding Spool Gun

The spool gun is designed to be used with the SW140 and SW200 MIG welders that have been revised and have the plug-in for the spool gun. (Check your welder for compatibility.) Designed for use with wire that is difficult to feed through the standard MIG gun, such as aluminum. It can also be used with all types of wire. The 4" spool is mounted inside the gun instead of in the machine which greatly reduces the spool-to-tip distance and eliminates most wire feeding issues.

The spool gun is rated at 200 Amps when using CO2 gas and 160 Amps when using mixed gas. With a 35% duty cycle, the unit is ideal for light fabrication and welding repairs.

The gun is capable of using .023, .030 and .035 wires.

ITEM No.

17015

CORD LENGTH

10 ft

WEIGHT

5 Lbs

Description	Specifications
Maximum Amperage	200A using CO2 Gas 160A using Argon/Argon Mix Gas
Cooling Method	Air-Cooled
Duty Cycle	35%
Suggested Wire	.023-.035 MIG (solid) wire .030-.035 Flux core wire .030-.035 Aluminum wire
Wire Spool Diameter	4" spool
Wire Speed	0 to 630 IPM
Cord Length	10 ft
MIG Gun connection	TWECO® Style
Contact Tips & Nozzle	TWECO® Style Series 11



WELDERS



Part No. 17030 Pro-Tack Plastic Welder

The new Pro-Tack Welder is an Eco-friendly welder that is great for repairing virtually anything made of plastic. It can fix everything from car bumpers to wheel barrels. It is as good for Industrial use as it is for Automotive applications.

Unlike most other plastic welders, it is rated to a maximum of 65 Amps and has 4 power settings. Our unique core-cut staples easily break off without cutting, affording an advantage

over other staples. It comes with 2 additional adaptors that go over the 2 probes and act as an iron for smoothing the plastic after welding.

Unlike the time-consuming plastic welders requiring plastic rods, this is a much quicker fix that adds the stability of metal staples; making the end result much stronger!

Dimension: 8 3/4" x 5 1/4" x 4 3/4"

PART NO.	VOLTAGE	MAX CURRENT	ADJUSTMENTS	WEIGHT
17030	110V/230V	65A	4 settings	10 pounds

Kit Includes:

- 4 Staple Styles
- 2 Ironing Blades
- Plastic Box for Staples
- Plastic Storage Case
- 2 Position Probe-90° and Straight

Features & Benefits:

- 4 Heat Settings
- LED Read Out
- Repairs Bumpers and Plastic Auto Parts (car & motorcycle)
- Capable of Ironing Plastic to a Smooth Finish.
- Rapid Heating and Cooling.

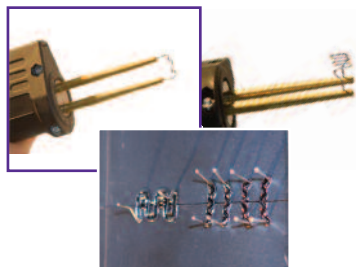


45° Angle

Straight

• Stapling

A large variety of core cut staples for tacking or seaming.



• Ironing Surface

Heating / melting / ironing the surface, to strengthen the durability and life. 2 Types-Flat and 45°



Staple Options

Staples sold separately.
100 Per Pack.



17031

Flat square



17032

Outside corner
small wave



17033

Outside corner
no wave



17034

Inside corner
small wave



17035

Inside corner
no wave



17036

Flat small
wave



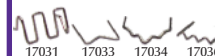
17037

Flat S type

* Included in kit

17038

Pack of 400 Staples
100 Each Staples
Below





SAFETY GEAR

The New Shark Anniversary 9/11 Helmet

The Shark 9/11 Patriotic helmet gives you a chance to exhibit your patriotism. The helmet features the World Trade Towers, American Eagle and American Flag. Graphics are painted and not a decal.

Helmet includes:

- Lens (options from fixed shade 10 to full autodarkening. See details on page 12&13)
- Ratcheting Head Gear
- 4 Color Graphic Box
- Outside Cover Lens
- Inside Safety Lens



The New Shark Red Racing Motif Helmet

The Shark new Red Racing Helmet will put you ahead of the crowd! This exciting helmet is candy-apple red and features a checkered flag breaking through the sides. Graphics are painted and not a decal.

Helmet includes:

- Lens (options from fixed shade 10 to full autodarkening. See details on page 12&13)
- Ratcheting Head Gear
- 4 Color Graphic Box
- Outside Cover Lens
- Inside Safety Lens



The Shark Black Flame Motif Helmet

The new Shark Black Flame Helmet featuring 3 dimensional chrome flames will make the old flames look out-dated! Grab this new approach on a favorite theme and claim it as yours either in the affordable Fixed Shade 10 or Variable Shade lenses. Graphics are painted and not a decal.

Helmet includes:

- Lens (options from fixed shade 10 to full autodarkening. See details on page 12&13)
- Ratcheting Head Gear
- 4 Color Graphic Box
- Outside Cover Lens
- Inside Safety Lens



REPLACEMENTS FOR ABOVE HELMETS

Headgear	Item No. 14142	Page No. 20
Outside Cover Lenses	Item No. 14137	Page No. 16
Inside Safety lenses	Multiple	Page No. 16

SAFETY GEAR



Lens Specifications

**Fixed Shade
Part# 14213
(Lens only)**



**Economy Auto
Darkening
Part# 14268
(lens only)
ADF 8105**



Part# 14262



Part# 14264



Part# 14266



Part# 14263



Part# 14265



Part# 14267

Features

Optical Class

Viewing Area

Size of Cartridge

Lens Shade

Light State

Shade Control

Sensors

On/Off

Power Supply

Switch Time

Sensitivity Control

Delay Time (Dark to Light)

Grind Mode

Low TIG Amps Rated

Operating Temperature

Storing Temperature

Packing

Application Range

Standard

Non Auto Darkening Shade 10

5.24"x4.49" (133x114mm)

5.24"x4.49" (133x114mm)

Shade 10

-10°C-+55°C

-20°C-+70°C

4 Color Graphic Box

Stick Welding (DC&AC); **Not for Grinding; Not for Laser Welding or OxyAcetylene Welding/Cutting**

ANSI Z87.1, CSA Z94.3 Approved

Good/Variable Auto Dark 9-13

1/1/1/2

3.82"x1.85" (97x47mm)

5.24"x4.50"x.35" (133x114x9mm)

9-13 variable

Shade 3.5

Internal

2

Automatic

Solar cell, no battery change req.

1/25,000

Adjust by infinity knob

0.35-0.45s

Yes

>5 amps/DC; >5 amps/AC

-10°C-+55°C

-20°C-+70°C

4 Color Graphic Box

Stick Welding (DC&AC); TIG(DC, DC Pulse); TIG AC(Pulse), **Excellent low amperage TIG response**, MIG/MAG; MIG/MAG Pulse; Plasma Cutting/Welding; Grinding; **Not for Laser Welding or OxyAcetylene Welding/Cutting**

ANSI Z87.1, CSA Z94.3 Approved



SAFETY GEAR

Lens Specifications

**Expert Large
Auto Darkening
Part# 14269
(Lens only)**
ADF 800S



**Expert Pro
Auto Darkening
Part# 14270
(Lens only)**
ADF 820S



Part# 14252



Part# 14254



Part# 14256



Part# 14253



Part# 14255



Part# 14257

Features

Better/Variable Expert Large View Auto Dark

Best/Variable Expert Pro Full View Auto Dark

Optical Class

1/2/1/1

1/2/1/1

Viewing Area

3.82"x2.44" (97x62mm)

3.74"x3.35" (95x85mm)

Size of Cartridge

5.24"x4.50"x.35" (133x114x9mm)

5.24"x4.50"x.35" (133x114x9mm)

Lens Shade

9-13 variable

6-9/9-13 variable

Light State

Shade 3.5

Shade 3.5

Shade Control

Internal

Internal

Sensors

4

4

On/Off

Automatic

Automatic

Power Supply

Solar cell+Battery Replaceable

Solar cell+Battery Replaceable

Switch Time

1/25,000

1/25,000

Sensitivity Control

Adjust by infinity dial knob

Low-High by infinity dial knob

Delay Time (Dark to Light)

0.1-1.0s by infinity dial control knob

0.1-1.0s by infinity dial control knob

Grind Mode

Yes

Yes

Low TIG Amps Rated

>2 amps/DC; >2 amps/AC

>2 amps/DC; >2 amps/AC

Operating Temperature

-10°C-+100°C

-10°C-+55°C

Storing Temperature

-20°C-+100°C

-20°C-+70°C

Packing

4 Color Graphic Box

4 Color Graphic Box

Application Range

Stick Welding (DC&AC); TIG(DC, DC Pulse); TIG AC(Pulse), **Excellent low amperage TIG response**, MIG/MAG; MIG/MAG Pulse; Plasma Cutting/Welding; Grinding; **Not for Laser Welding or OxyAcetylene Welding/Cutting**

Stick Welding (DC&AC); TIG(DC, DC Pulse); TIG AC(Pulse), **Excellent low amperage TIG response**, MIG/MAG; MIG/MAG Pulse; Plasma Cutting/Welding; Grinding; OxyAcetylene Welding/Cutting; **Not for Laser Welding.**

Standard

ANSI Z87.1, CSA Z94.3 Approved

ANSI Z87.1, CSA Z94.3 Approved

Part No. 14273 Black Auto Darkening Helmet

The new Shark Economical Auto Darkening Helmet is at a price range that fits into everyone's budget!



14273

Helmet includes:

- Lens
- Ratcheting Head Gear
- 4 Color Graphic Box
- Outside Cover Lens
- Inside Safety Lens

Lens Specifications

Viewing Area	4.5"x2.25" (114.3x57.15mm)
UV/IR Protection	Up To Shade DIN 16 at all times
Shade #'s	9,10,11,12,13 Welding Lenses
Total Weight	1.1 lb

REPLACEMENTS

Headgear	14276
*Cover Lens	14135
Inside lens	14275

**If you have an AF200A (older style) Lens your part number is 14274 and if you have an ADF600S (new style) your part number is 14135. (You can find the ADF#/AF# above the sensitivity switch in the upper left corner of the lens.)*

Part No. 14272 Red Lift Front Helmet

The Shark Red Lift Front Helmet offers a Large Viewing area. This economical helmet is a fixed shade 10 lens and will give you the advantage of having a full viewing area.



14272

Helmet includes:

- Lens
- Ratcheting Head Gear
- 4 Color Graphic Box
- Outside Cover Lens
- Inside Safety Lens

Lens Specifications

Viewing Area	4.5"x5.25" (114.3x133.35mm)
UV/IR Protection	Up To Shade DIN 16 at all times
Shade	#10 Welding Lenses
Total Weight	1.5 lb

REPLACEMENTS

Headgear	14278
Cover Lens	14277
Shade #10 Lens	14213



SAFETY GEAR

Helmets

Economical Polypropylene Welding Helmet

This helmet is our most economical style with a 2" x 4 1/4" viewing area. Shade 10 lens included. Made in Taiwan.

<u>ITEM No.</u>	<u>TYPE</u>	<u>PKG. QTY.</u>
14116	Economy Black Helmet	1



14116

Econ-O Nylon Slim Line Helmets

Available with a lift front or fixed front lense and ratcheting headgear. These economy helmets come with a shade 10 filter plate and clear plastic lens cover. All are lightweight and have an extended bib to deflect spatter.

<u>ITEM No.</u>	<u>STYLE</u>	<u>HEAD GEAR</u>	<u>LENS SIZE</u>	<u>COLOR</u>
14101	Fixed Front	Ratchet	2" x 4 1/2"	Grey
14103	Lift Front	Ratchet	2" x 4 1/2"	Grey
14105	Lift Front	Ratchet	4 1/2" x 5 1/2"	Grey
14109	Fixed Front	Ratchet	4 1/2" x 5 1/4"	Grey



14101

Blue/Red Nylon Lift Front Helmet

Helmets are available in 2 lens sizes - shade 10 - with a clear plastic cover lens. Ratchet type headgear with a flip-up lens so helmet does not need to be removed or raised while viewing work.

<u>ITEM No.</u>	<u>TYPE</u>	<u>COLOR</u>	<u>PKG. QTY.</u>
14107	2" x 4 1/4" Lens-Lift	Blue	1
14106	4 1/2" x 5 1/4" Lens-Lift	Blue	1
14272	4 1/2" x 5 1/4" Lens-Lift	Red	1



14107

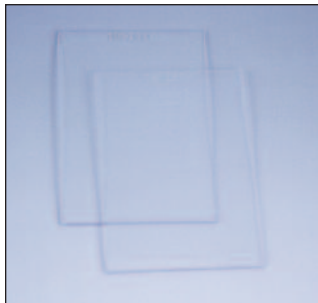
Silver Coated, Cool Lift Front Welding Helmet

This lift front helmet has a 2" x 4 1/4" lens. 30% cooler than uncoated helmets, it comes with a ratcheting headgear and #10 lens. Meets ANSI standards.

<u>ITEM No.</u>	<u>TYPE</u>	<u>PKG. QTY.</u>
14112	2" x 4 1/4" Lens	1



14112



14340

Replacement Inside Cover Lens For Auto Dark

For ADF800S AutoDark Filter

<u>ITEM No.</u>	<u>SIZE</u>	<u>SHADE</u>	<u>PKG. QTY.</u>
14340	2 1/2" x 3 3/4"	Clear	1

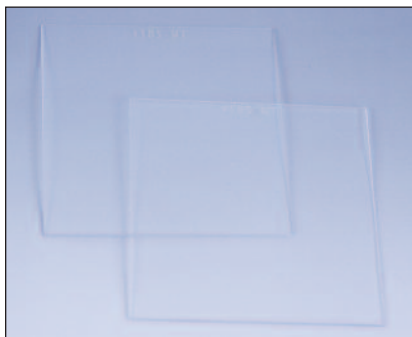


14275

Replacement Inside Cover Lens

For ADF810S AutoDark Filter

<u>ITEM No.</u>	<u>SIZE</u>	<u>SHADE</u>	<u>PKG. QTY.</u>
14275	2" x 3 3/4"	Clear	1

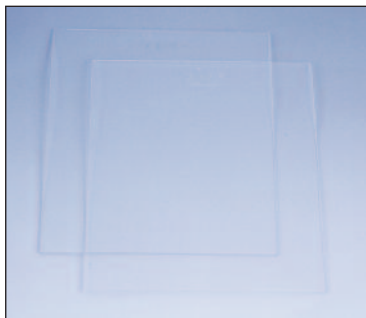


14341

Replacement Inside Cover Lens

For ADF820S Auto-darkening Filter

<u>ITEM No.</u>	<u>SIZE</u>	<u>SHADE</u>	<u>PKG. QTY.</u>
14341	3 1/2" x 3 3/4"	Clear	1

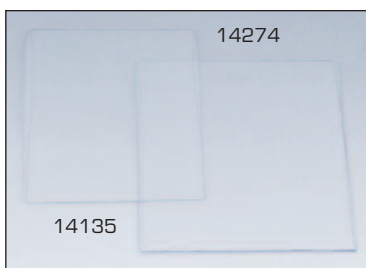


14137

Replacement Front Cover Lens

For All Shark Graphic Helmets

<u>ITEM No.</u>	<u>SIZE</u>	<u>SHADE</u>	<u>PKG. QTY.</u>
14137	5 1/4" x 4 1/2"	Clear	1



14135

14274

Replacement Cover Lens

For Black Auto -darkening Helmet

<u>ITEM No.</u>	<u>SIZE</u>	<u>SHADE</u>	<u>PKG. QTY.</u>
14135	4 1/4" x 4 5/8"	ADF600S (new style)	1
14274	3 5/8" x 4 3/8"	AF200A (old style)	1



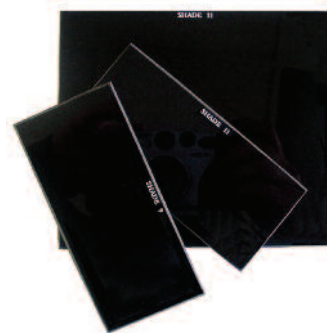
SAFETY GEAR

Replacement Lenses

These lenses provide maximum protection from ultraviolet and infrared radiation. The darker lenses are for higher amperage, where the lighter lenses are for indoor and light welding. Clear cover lenses are made of high quality material to protect shaded lenses, where gold lenses reflect radiated energy from arc.

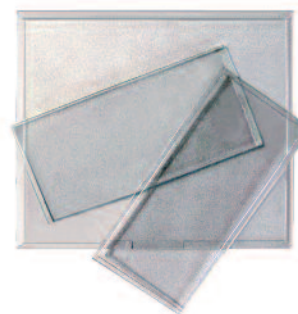
Sizes 2" x 4 1/4"

ITEM No.	SIZE	SHADE	PKG. QTY.
14200	2" x 4 1/4"	#5	1
14201	2" x 4 1/4"	#8	1
14202	2" x 4 1/4"	#9	1
14203	2" x 4 1/4"	#10	1
14204	2" x 4 1/4"	#11	1
14205	2" x 4 1/4"	#12	1
14206	2" x 4 1/4"	Clear Polycarbonate	1
14207	2" x 4 1/4"	Clear Polycarbonate	3
14208	2" x 4 1/4"	Clear Glass	1
14209	2" x 4 1/4"	Gold #9	1
14210	2" x 4 1/4"	Gold #10	1



Sizes 4 1/2" x 5 1/4"

ITEM No.	SIZE	SHADE	PKG. QTY.
14211	4 1/2" x 5 1/4"	#8	1
14212	4 1/2" x 5 1/4"	#9	1
14213	4 1/2" x 5 1/4"	#10	1
14214	4 1/2" x 5 1/4"	#11	1
14215	4 1/2" x 5 1/4"	#12	1
14216	4 1/2" x 5 1/4"	Polycarbonate	1
14217	4 1/2" x 5 1/4"	Clear	1
14218	4 1/2" x 5 1/4"	Gold #9	1
14219	4 1/2" x 5 1/4"	Gold #10	1



50mm Round Lenses



These high quality lenses are 50 millimeters in diameter and are sold in pairs.

ITEM No.	COLOR	PKG. QTY.
14220	Green Shade #4-Poly	1
14221	Green Shade #5-Poly	1
14222	Green Shade #6-Poly	1
14223	Clear Glass	1
14224	Clear Polycarbonate Cover	1

Magnaweld Lenses



14225/14226

Lens magnifies work to allow you to weld with or without eyeglasses.

For bifocal wearers, these fit helmets and goggles with 2" x 4 1/4" lens openings.

ITEM No.	SIZE	MAGNIFICATION	PKG. QTY.
14225	2" x 4 1/4"	F 1.50	1
14226	2" x 4 1/4"	F 2.00	1

CHART

For Identifying Lens Shade by Application

SHADE	DESCRIPTION	JOB APPLICATION
9 to 12	Hand Shields and Welding Helmets	Electric Arc
4 to 8	Faceshield, Goggles, Hand Shield or Helmet	Gas Welding
4 to 6	Faceshield, Goggles, Hand Shield or Helmet	Welding/Cutting/Grinding
4 to 5	Faceshield, Goggles, Hand Shield or Helmet	Torch Brazing Welding
1.5 to 3	Faceshield, Welding Glasses	Torch Soldering

SAFETY GEAR



14315

Deluxe Welders Hand Held Face Shield

This easy hand held shield is ergonomically designed with a hand hole large enough to fit a gloved hand. It is light weight and can fit in either hand.

The viewing area is 2" x 4 1/4" with a shade 10 lens and cover plate. Ideal for small jobs or as protection when other people are welding. Meets ANSI Z87.1-1989 and CSA-Z94.3-92 SEI Certified

<u>ITEM No.</u>	<u>DESCRIPTION</u>	<u>PKG. QTY.</u>
14315	Hand Held Welding Shield	1



14316

Economy Welders Hand Held Face Shield

Easy, economical hand held shield is an inexpensive way to protect yourself on small welding jobs.

For use with 100 Amps or less. Shade 9 lens. The viewing area is 2" x 4 1/4". Ideal for small jobs or around other people who are welding.

<u>ITEM No.</u>	<u>DESCRIPTION</u>	<u>PKG. QTY.</u>
14316	Economy Hand Held Welding Shield	1

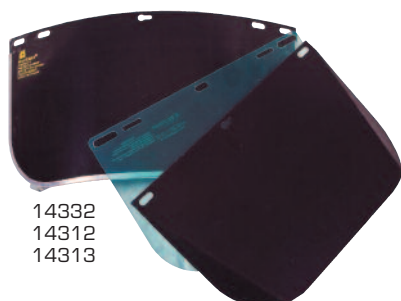


14319

Grinding Shield

These 8" x 12" grinding shields are designed for use while using various power tools. Protects from harmful exposure to dangerous wheels and flying debris.

<u>ITEM No.</u>	<u>COLOR</u>	<u>PKG. QTY.</u>
14317	Clear Pinlock Headgear 8" x 12"	1
14318	Green Pinlock Headgear 8" x 12"	1
14319	Clear Ratchet Headgear 8" x 16"	1
14320	Green Ratchet Headgear 8" x 16"	1



14332
14312
14313

Replacement Grinding Shields

Replacement face shield comes in 8" x 12" or 8" x 16" and made from plastic.

<u>ITEM No.</u>	<u>COLOR</u>	<u>PKG. QTY.</u>
14312	Clear 8" x 12"	1
14313	Green 8" x 12"	1
14310	Clear 8" x 16"	1
14311	Green 8" x 16"	1
14331	Clear 8" x 16" w/ Metal Rim	1
14332	Green 8" x 16" w/ Metal Rim	1



SAFETY GEAR

Replacement Headgear

Replacement Headband & Headgear

Headband will work on part #14317 - #14320 welding shields.

<u>ITEM No.</u>	<u>DESCRIPTION</u>	<u>PKG. QTY.</u>
14314	Comfortable Headband Cover	1
14335	Headband with Headgear (no shield)	1
14333	Ratchet Headgear	1
14334	Pinlock Headgear	1



14333



14314

Pin Headgear

This headgear has a pin type adjustment for headband and crown strap. Use with part number #14100-14105, #14109, 14112, 14317-20, 14122, 14125-30. Also works with all **Sellstrom** helmets.

<u>ITEM No</u>	<u>PKG. QTY.</u>
14117	1



14117

Ratchet Headgear

This headgear has a ratchet type adjustment for headband with pin type for crown strap. Use with part number #14100-14105, 14109, 14111, 14112, 14121, 14326-27, 14135-37. Also works with all **Sellstrom** helmets.

<u>ITEM No.</u>	<u>PKG. QTY.</u>
14118	1



14118

Ratchet Headgear

This headgear is made from pliable, long lasting plastic that won't stiffen. Straps are easy adjusting for head size and crown fit. There are pivot points for the helmet that are extended from the headband to eliminate pressure on sides of the head, Is compatible with all **Jackson/Morsafe** helmets.

<u>ITEM No.</u>	<u>PKG. QTY.</u>
14119	1



14119

SAFETY GEAR



Replacement Headgear



Universal Headgear

This headgear is made from pliable, long lasting plastic that won't stiffen. Compatible with most helmets, this headgear is ratcheting.

ITEM No.
14120

PKG. QTY.
1



Replacement Headgear for Part# 14272

Ratcheting headgear for Shark red lift front helmet part# 14272.

ITEM No.
14278

PKG. QTY.
1



Replacement Headgear for Part# 14273

Ratcheting headgear for Shark black auto darkening helmet part# 14273.

ITEM No.
14276

PKG. QTY.
1



Replacement Headgear for NEW Graphic Helmets

Ratcheting replacement headgear for the following Shark Graphic Helmets: The 9/11 Helmet, Candy Apple Red Racing Helmet and the Black Flame Helmet. Part numbers are as follows: 14262, 14264, 14266, 14263, 14265, 14267, 14252, 14254, 14256, 14253, 14255 and 14257.

ITEM No.
14142

PKG. QTY.
1



SAFETY GEAR

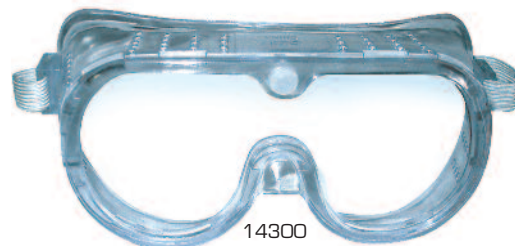
Clear Plastic Goggles

Goggles fit over regular eyeglasses and are perforated for good ventilation.

Good for use as general purpose safety protector in industry, workshop, farming and sports.

ITEM No.
14300

PKG. QTY.
1



Fog-Free, Vented Goggles

Made for easy viewing, ventilation and comfort. The acetate lens conforms to the eye area for a light-tight seal. Can be used over glasses.

ITEM No.
14303

PKG. QTY.
1

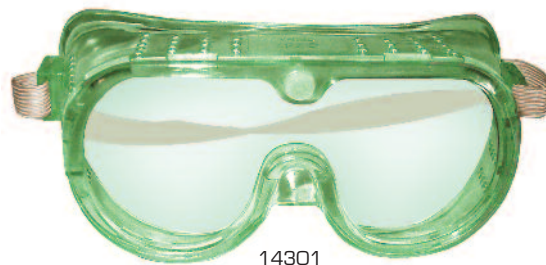


Light Green Plastic Goggles

Lens is light green shaded with clear sides. Not for oxy-acetylene welding.

ITEM No.
14301

PKG. QTY.
1



Camouflage Goggles

Camouflage goggles! Lens is dark green #5 shade for protection. Comfort head strap has velcro closure.

ITEM No.
14329

PKG. QTY.
1



Eye Cup Goggles

These 50 mm goggles are heat treated, #5 shade lenses. Easily folds up to carry in your pocket.

ITEM No.
14302

PKG. QTY.
1



SAFETY GEAR



14305

Cup Style Acetylene Goggles

Made from soft vinyl with #5 heat treated lenses on this aviator shaped goggle. Air vents to prevent fogging.

Designed to be worn over regular eyeglasses.

ITEM No.
14305

PKG. QTY.
1



14306

50mm Stationary Acetylene Goggles

Made from soft vinyl that forms to the head. Six vents prevent fogging. Goggles have a 50 mm, #5 lens and a pit resistant cover lens.

ITEM No.
14306

PKG. QTY.
1



14307

50mm Flip-Up Oxy-Acetylene Goggles

Made from soft vinyl with 50mm, #5 heat treated lenses.

ITEM No.
14307

PKG. QTY.
1



14308

Box Style Stationary Acetylene Goggles

Made from soft vinyl that forms to the head. Six vents prevent fogging. Goggles have a 2" x 4 1/4", #5 lens and a pit resistant cover lens.

Rectangle shape designed to be worn over regular eyeglasses or with a magnifying lens.

ITEM No.
14308

PKG. QTY.
1



14309

Box Style Flip-Up Acetylene Goggles

Made from soft vinyl with 2" x 4 1/4", #5 flip-up lens shade and air vents to prevent fogging.

ITEM No.
14309

PKG. QTY.
1



14330

Elastic Headband For Goggles

Adjustable, replacement headband for many types of goggles.

ITEM No.
14330

PKG. QTY.
1



SAFETY GEAR

Safety Glasses

Protective Glasses

Stylish wrap-around design frame with curved lens for a snug secure fit. Durable/scratch-resistant. ANSI Z87.1

<u>ITEM No.</u>	<u>COLOR</u>	<u>PKG. QTY.</u>
14338	Clear	1



Comfort Designed Safety Glasses

Innovative frame design fits all face shapes. Impact and scratch resistant lens. UV400 coating & ANSI Z87.1

<u>ITEM No.</u>	<u>COLOR</u>	<u>PKG. QTY.</u>
14339	Clear	1



Fashionable Gloss Finish Safety Glasses

Curve style safety glasses with two piece anti-scratch PC lens. Rubber leg foot and nose bridge. UV400 coating & ANSI Z87.1

<u>ITEM No.</u>	<u>COLOR</u>	<u>PKG. QTY.</u>
14342	Clear	1



Frameless Safety Glasses

Economical fashionable light weight frameless style safety glasses with slim temple leg and soft rubber temple cover. ANSI Z87.1 + CE EN 166.

<u>ITEM No.</u>	<u>COLOR</u>	<u>PKG. QTY.</u>
14343	Smoked	1
14344	Clear	1



Protective Tri-Shield Glasses

Glasses have a top and flat folding side shield with a polycarbonate safety lens.

<u>ITEM No.</u>	<u>SHADE</u>	<u>PKG. QTY.</u>
14321	Clear	1
14322	#5 Green	1



21st Century Protective Glasses

Glasses have a flat folding side shield with a safety lens.

<u>ITEM No.</u>	<u>SHADE</u>	<u>PKG. QTY.</u>
14323	#3 Green	1
14324	#5 Green	1



Visitor Safety Glasses

Clear visitor safety glasses are inexpensive, one-size-fits-all glasses that will easily fit over regular eyeglasses. Not for any welding use.

<u>ITEM No.</u>	<u>TYPE</u>	<u>COLOR</u>	<u>PKG. QTY.</u>
14327	Visitor	Clear	1
14328	Visitor	Smoke	1



SAFETY GEAR



Ear/Air Protection

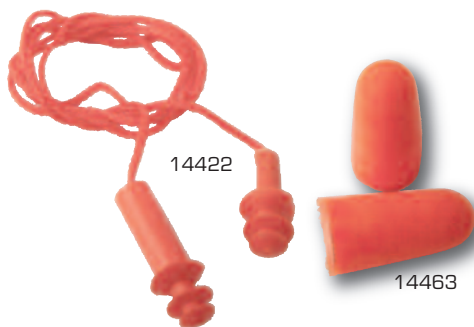


Noise Protection Ear Muffs

Comfortable and lightweight ear muffs with a self-aligning adjustable strap. For maximum protection and safety from the worst levels of noise. Also has self-aligning ear cups.

Can be used for most common levels of industrial noise.

<u>ITEM No.</u>	<u>PKG. QTY.</u>
14425	1



Reusable Ear Plugs

Comfortable ear plugs with or with out neck string.

<u>ITEM No.</u>	<u>DESCRIPTION</u>	<u>PKG. QTY.</u>
14422	Ear plugs with neck string in box	1 pair
14423	Ear plugs in plastic box-Medium	1 pair
14424	Ear plugs in plastic box-Large	1 pair
14463	Disposable Ear Plugs	1 pair

Half Mask Respirators

Half Mask respirator comes with either a metal fume cartridge for welding or a cartridge set-up for paint fume protection.



<u>ITEM No.</u>	<u>DESCRIPTION</u>	<u>PKG. QTY.</u>
14416	Paint Fume Respirator	1
14417	Welding Fume Respirator	1
14418	Paint Fume Replacement Cartridge	2
14419	Welding Fume Replacement Cartridge	2
14421	Welding Fume Replacement White Filters	10



SAFETY GEAR

Masks/Eye Wash Station/Hard Hats

Custom Fit Dust Masks

Masks are made from an extremely absorbent filter material and are lightweight. Metal tab to secure tightly to your nose. Use for lab work, grinding, sanding and dusty work areas. Not for use for paint or other toxic fumes.

ITEM No.

14426

14427

PKG. QTY.

10

50/bx.



14426

Acid Resistant Dust Masks

N95 Valved OV Particulate Mask.

ITEM No.

14428

DESCRIPTION

Valved respirator

PKG. QTY.

10



14428

Gravity Feed Portable Eye Wash Station

This SEI Certified 16 gallon eye wash unit comes with a zinc plated steel wall mounting bracket, drain hose and one bottle of Redi-Sep bacteriostatic additive with test log card. Flow activates in less than 1 second. Unit weighs only 16 lbs and has a flow duration of over 15 minutes at a rate of .4 gallons per minute

ITEM No.

14432

14433

14434

14435

DESCRIPTION

16 gallon unit with bottle of Redi-Sep

8 oz. bottle of Redi-Sep

1 gallon Rapid Clear Concentrate

Dust Cover for 16 gallon Station

PKG. QTY.

1

1

1

1



14432

Hard Hats

For maximum protection from electrical hazards or general impact and penetration protection. Meets ANSI Z89.2 regulations and CS-22. ABS or HDPE material. Woven Band or Ratcheting Suspension. Hats and headgear sold separately.

ITEM No.

14438

14439

14448

14440

14441

14442

DESCRIPTION

Red HDPE Shell No Headband

Yellow ABS Shell No Headband

White ABS Shell No Headband

Woven Suspension & Headgear-Medium

PE suspension Headgear-Medium

Chin Strap (not shown)

PKG. QTY.

1

1

1

1

1

1

14439

14448



14440



14441

SAFETY GEAR



Leather Welding Gloves



14402

Brown Leather Welding Gloves

Brown leather welding gloves. Protect against sparks, hot metal and slag.

<u>ITEM No.</u>	<u>SIZE</u>	<u>PKG. QTY.</u>
14402	Large	1



14401

Grey Economy Lined Leather Welding Gloves

These 15 1/2" long gloves are heavy duty, heat resistant and have a gauntlet for protection. They offer average protection while welding. Protects against sparks and hot metal.

<u>ITEM No.</u>	<u>SIZE</u>	<u>PKG. QTY.</u>
14401	Large	1



14403

Blue Deluxe Welding Gloves

These 15 1/2" long gloves are superior quality. They have a fully lined interior to insulate against heat and have a gauntlet for protection. One piece back is made of shoulder split leather.

<u>ITEM No.</u>	<u>SIZE</u>	<u>PKG. QTY.</u>
14403	Large	1



14525

Blue Extra Heavy Duty Gloves

This top-of-the-line, Kevlar lined glove is 15 1/2" long. The gun cut with wing thumb construction offers you extra life. These 2-toned welding gloves are extra thick for added protection when you need it while welding or moving hot items.

<u>ITEM No.</u>	<u>SIZE</u>	<u>PKG. QTY.</u>
14525	Large	1



SAFETY GEAR

Leather Welding/Work Gloves

Red Deluxe Leather Welding Gloves

These deluxe red thermal lined gloves protect against sparks, hot metal and slag. Gun cut with wing thumb, lock stitch construction has a one-piece back and are 16" long. Made with shoulder split leather, these are our better gloves.

<u>ITEM No.</u>	<u>SIZE</u>	<u>PKG. QTY.</u>
14404	Large	1



14404

Tig Gloves

These premium leather gloves are made of top grain leather. They will withstand moisture, unlined for maximum dexterity and are 14" long.

<u>ITEM No.</u>	<u>SIZE</u>	<u>PKG. QTY.</u>
14400	Large	1



14400

Leather Work/Driver Gloves

These gloves are made of select, side split cowhide. Gloves are lightweight, soft and pliable. 9" Length.

<u>ITEM No.</u>	<u>SIZE</u>	<u>PKG. QTY.</u>
14414	Large	1



14414

Leather Palmed Economy Work Gloves

Shoulder split cowhide on palms, thumb and index finger. Gun cut with cotton band and back.

<u>ITEM No.</u>	<u>SIZE</u>	<u>PKG. QTY.</u>
14415	Large	1



14415

SAFETY GEAR



14520

Leather Welding Jacket

Leather is the best form of protection when it comes to Welding. Exceptionally good when welding overhead, our top quality grain leather jackets will offer an extended life protection over sateen. Available in sizes from Large to 3-XL, these jackets are comfortable and easy to wear.

<u>ITEM No.</u>	<u>SIZE</u>	<u>PKG. QTY.</u>
14520	Large	1
14521	X-Large	1
14522	XX-Large	1
14523	XXX-Large	1



14524

Leather Welding Apron

Our quality top grain leather welding apron will afford you protection when and where you need it. Available in large, the ties are long enough to fit most sizes.

<u>ITEM No.</u>	<u>SIZE</u>	<u>PKG. QTY.</u>
14524	Large	1

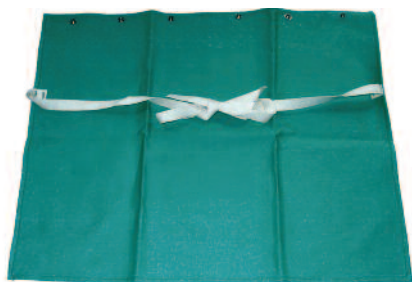


14508

Welder's Cape Sleeves without Bib

Cape sleeves are made from green, flame resistant cotton sateen with a snap front. Full length sleeves have a snap cuff and a stand up collar. Weight: 9.5 oz. fabric.

<u>ITEM No.</u>	<u>SIZE</u>	<u>PKG. QTY.</u>
14506	Large	1
14507	X-Large	1
14508	XX-Large	1



14509

Welder's Bib

This 20" long bib is made to snap on to the cape sleeves for lower body protection while welding.

<u>ITEM No.</u>	<u>SIZE</u>	<u>PKG. QTY.</u>
14509	Large	1

Welding Jacket



14503

Jacket is 30" long and is made from 9.5 oz. green, flame resistant sateen cotton with a snap front, full length sleeves that have a snap cuff and a stand up collar.

<u>ITEM No.</u>	<u>SIZE</u>	<u>PKG. QTY.</u>
14503	Large	1
14504	X-Large	1
14505	XX-Large	1
14510	XXX-Large	1

Welding Apron



14500

Apron Material is 9.5 oz. weight. Made from green flame resistant sateen cotton it has standard sewn ties.

<u>ITEM No.</u>	<u>SIZE</u>	<u>PKG. QTY.</u>
14500	Large	1
14501	X-Large	1
14502	XX-Large	1
14511	XXX-Large	1



SAFETY GEAR

Assorted Welding Hats

Made of breathable cotton, these hats will offer protection with their wide, soft brims. Available in popular prints and colors.



14452



14455



14458



14466

ITEM No.	DESCRIPTION	SIZE	PKG. QTY.	ITEM No.	DESCRIPTION	SIZE	PKG. QTY.
14452	Red - Polka Dot	7 1/4"	1	14458	Assorted Wild Prints	7 1/4"	1
14453	Red - Polka Dot	7 3/8"	1	14459	Assorted Wild Prints	7 3/8"	1
14454	Red - Polka Dot	7 1/2"	1	14460	Assorted Wild Prints	7 1/2"	1
14455	Green - Polka Dot	7 1/4"	1	14466	Camo Print	7 1/4"	1
14456	Green - Polka Dot	7 3/8"	1	14467	Camo Print	7 3/8"	1
14457	Green - Polka Dot	7 1/2"	1	14468	Camo Print	7 1/2"	1

Black Cotton Welding Beanies



14450

Black cotton welding beanie for light weight protection under your helmet when a brim is not required.

ITEM No.	SIZE	PKG. QTY.
14450	Large	1
14451	Extra Large	1

Black Quilted Skull Cap



14461

This flat crowned, firm brimmed hat is quilted and perfect for welding.

ITEM No.	SIZE	PKG. QTY.
14461	7 1/4"	1

Welder's Stur-D-Screen

Square steel tubing adds stability and support to this special orange heavy duty vinyl welding screen. Provides 100% of far U.V. Radiation and 100% of Blue Light protection. Portable, light weight design makes this an easy product to use and transport.

ITEM No.	SIZE	WEIGHT
14443	6' High x 4' Wide	23 lbs.
14866	6' High x 6' Wide	27 lbs.
14868	6' High x 8' Wide	31 lbs.

Shipped disassembled as a complete package including square steel frame, brackets, platform "T" legs, ties and safety curtain.



14443

Welding Blanket

This fiberglass and silicone welding blanket offers spark and molten metal protection. Measuring 38" x 24" it has a sewn in pocket.

ITEM No.	SIZE	PKG. QTY.
12255	38" x 24" Silicon Blanket	1

All New Material - Reinforced Black Carbon Fiber Blanket is good up to 3000+ degree temperatures. The best protection we can offer you in a durable blanket!

- Small Slag Protection
- 100% Flame Resistant
- Spark Protection
- Soft & Flexible
- Non-Abrasive - will not scratch clear coats
- Tear Resistant

ITEM No.	SIZE	PKG. QTY.
12259	72" x 72" Center Reinforced Carbon Fiber	1



12255

12259

CUTTING KITS



Victor Style Welding & Cutting Kits with Built-In Flash Back Arrestors

Heavy Duty Economy Victor Style Kit

This heavy duty Victor-Journeyman compatible kit was designed for industrial or commercial use. Welds up to 1/2" (3" capability with optional nozzles). Cuts up to 3/4" thick with supplied #1 tip or up to 8" with optional cutting tips. Includes a larger welding



12401

handle than the medium duty kit, #1, #3 and #5 welding nozzles included. Heavy duty regulators, 3/16" x 25' twin hose, goggles and striker complete the kit.

ITEM No.	TYPE	PKG. QTY.
12401	Total Kit with Hose	1
12555	#1 Cutting Tip cuts up to 3/4"	1
12570	#1 Welding Tip	1
12572	#3 Welding Tip	1
12670	#5 Welding Tip	1
12574	#8 Heating Nozzle	1
12671	Torch Handle	1
12672	Heavy Duty Journeyman Style Cutting Attachment	1
12443	Heavy Duty Oxygen Regulators	1
12444	Heavy Duty Acetylene Regulators	1
12265	3/16" x 25' Twin Hose	1
12237	Striker	1
14305	Goggles	1

Dimension: 18" x 18" x 4" • Weight: 24.2 lbs.

250 Gas Welding & Cutting/Medium Duty Kit

This medium duty kit was designed for the craftsman or mechanic. Welds up to 5/64" thick or up to 1 1/4" with optional nozzles. Cuts up to 1/2" thick with supplied tip or up to 5" with optional cutting tips. Includes a larger welding handle than the light duty kit, #0



12402

welding tip, larger cutting attachment and 0-3-101 cutting tip, medium duty oxygen and acetylene regulators, 3/16" x 20' twin hose, goggles and striker. Built-in flash back arrestors for added safety!

ITEM No.	TYPE	PKG. QTY.
12402	Total Kit with Hose	1
12577	#0 Cutting Tip cuts up to 1/2"	1
12599	#0 Welding Tip w/Universal Mixer- 5/64"	1
12490	250 Series Cutting Attachment	1
12491	260C Torch Handle	1
12459	Single Stage 250 Oxygen Regulators	1
12460	Single Stage 250 Acetylene Regulators	1
12264	3/16" x 20' Twin Hose	1
12237	Striker	1
12242	Tip Cleaner	1
14305	Goggles	1

Dimension: 19" x 14" x 5" • Weight: 15.6 lbs.

Medium Duty Economy Victor Style Kit

This Victor comparable kit was designed for automotive or construction use. Welds up to 1/4" thick up to 1 1/4" with optional nozzles. Cuts up to 1/2" thick - or 6" with optional cutting tips. Includes a medium duty torch handle. #0, #2 and #4 welding nozzle, medium duty cutting attachment and medium duty oxygen and acetylene regulators, 3/16" x 20' twin hose, goggles and striker complete the kit.

ITEM No.	TYPE	PKG. QTY.
12403	Total Kit with Hose	1
12577	#0 Cutting Tip cuts up to 1/2"	1
12599	#0 Welding Tip	1
12601	#2 Welding Tip	1
12603	#4 Welding Tip	1
12604	#6 Heating Nozzle	1
12490	Medium Duty Cutting Attachment	1
12491	Medium Duty Torch Handle	1
12459	Medium Duty Oxygen Regulators	1
12460	Medium Duty Acetylene Regulator	1
12264	3/16" x 20' Twin Hose	1
12237	Striker	1
12242	Tip Cleaner	1
14305	Goggles	1

Dimensions: 18" x 14" x 4" - Weight: 15.4 lbs.



12403



CUTTING KITS

Oxygen-Acetylene Tote Kit

This super range compatible kit welds up to 3/16" (expandable to 1 1/4" and cuts up to 1/2" (6" with optional tips). Designed for portability, this medium to light weight outfit allows you to take the torch to the job. Includes everything except the gas. Made in Taiwan.

ITEM No.	STYLE	PKG. QTY.
12411	Tote with Cylinders	1
12466	260C Series Torch Handle	1
12467	Cutting Attachment	1
12468	#1 Welding Nozzle- up to 3/16"	1
12469	#0 Cutting Tip Cuts to 1/2"	1
12470	Oxygen Regulators (Light Duty)	1
12471	Acetylene Regulators (Light Duty)	1
Oxygen is CGA540 Conn./Ace. is MC (CGA200)		
	3/16" x 12.5' Dualine Hose	1
	Shade #5 Goggles - Striker	2
	Tip-nozzle flow chart - Cylinder Wrench	1
	2 Year Limited Warranty (Cylinders Shipped Empty)	



12411

Tandem Cylinder Truck

15" wide tandem cylinder truck is compact and useful in small aisles and crowded spaces. Designed for use with 2 cylinders, no greater than 8" each in diameter tanks. Made in USA

ITEM No.	DIMENSIONS	WT.
14481	15" W x 42" H x 25" Deep Cart bed is 9" Wide x 17.5" Deep	32 lbs.



14481

Heavy Duty Hand Truck For Large Cylinders

Our heavy duty 18" rugged steel wheel truck moves easily over all surfaces. For use with oxygen/Acetylene tanks. This is our work horse of carts. Self-leveling tool shelf on back. Made in USA

ITEM No.	DIMENSIONS	WT.
14482	35" W x 47" H x 22" Deep Cart Bed is 12"x 24", Large Deep Tool Tray	52 lbs.



14482

Economical Gas Cylinder Hand Truck

For standard trucks and medium cylinders. Easy to use, lightweight truck fits most needs and will carry up to 122 cubic foot tanks. Made in USA

ITEM No.	DIMENSIONS	WT.
14480	21" W x 44" H x 14" Deep Cart Bed is 8"x16 3/4 - Large Tool Tray	30 lbs.



14480

Acetylene Kit/Cylinder Carts

TIPS & NOZZLES



12502



12504



12509



12513



12519



12525

Airco Style Cutting Tips

Available in 2 types of tips. Both tips have a medium preheat and are used for general cutting. The Acetylene tip is a 144 series and the Propane/Natural Gas is a 261 series.

ITEM No.	TIP SIZE	TYPE	PKG. QTY.
12500	0	Acetylene	1
12501	1	Acetylene	1
12502	2	Acetylene	1
12503	3	Acetylene	1
12504	1	Propane/Gas	1

Harris Style Cutting Tips

Available in 2 types of tips. Both tips have a medium preheat and are used for general cutting. The Acetylene tip is a 6290 series and the Propane/Natural Gas is a 6290-NX series. Fits a Harris model 85 torch handle.

ITEM No.	TIP SIZE	TYPE	PKG. QTY.
12505	000	Acetylene	1
12506	00	Acetylene	1
12507	0	Acetylene	1
12508	1	Acetylene	1
12509	2	Acetylene	1
12510	3	Acetylene	1
12511	4	Acetylene	1
12512	00	Propane/Natural Gas	1
12513	0	Propane/Natural Gas	1
12514	1	Propane/Natural Gas	1
12515	2	Propane/Natural Gas	1
12516	3	Propane/Natural Gas	1
12517	4	Propane/Natural Gas	1

Harris Style Acetylene Welding Tip

This elbow style is a 23-A-90 series and is used with the E-43 mixer.

ITEM No.	TIP SIZE	TYPE	PKG. QTY.
12518	0	Acetylene	1
12519	1	Acetylene	1
12520	2	Acetylene	1
12521	3	Acetylene	1
12522	4	Acetylene	1
12523	5	Acetylene	1
12524	6	Acetylene	1

Harris Style Oxy - Acetylene Mixer

This mixer is an E-43 series and is used with the 23-A-90 elbow.

ITEM No.	PKG. QTY.
12525	1



TIPS & NOZZLES

Marquette Style Star Jet Cutting Tip - GW4

This one piece, medium duty tip is made from solid copper and has a slip-in design. The seat is tapered for a positive gas seal and has four preheat holes to ensure efficient cutting results. Tip has a medium preheat.

General purpose tip.

ITEM No.	TIP SIZE	SERIES	PKG. QTY.
12527	1	GW4	1
12528	3	GW4	1
12529	4	GW4	1



12528

Marquette Style Star Jet Cutting Tip - GW6

This one piece, heavy duty tip is made from solid copper and has a slip-in design. The seat is tapered for a positive gas seal and has six preheat holes for fast starting and cutting. Tip has a heavy preheat.

General purpose tip.

ITEM No.	TIP SIZE	SERIES	PKG. QTY.
12530	2	GW6	1
12531	4	GW6	1



12530

Purox Style Acetylene Cutting Tips

This cutting tip is a 4202 series with medium heat.

General purpose tip.

ITEM No.	TIP SIZE	SERIES	PKG. QTY.
12532	3	4202	1
12533	4	4202	1
12534	5	4202	1
12535	7	4202	1



12532

Smith Style Acetylene Cutting Tips - SC12/SC40

Available in 2 types of tips. Both tips have a medium preheat and are used for general cutting. The Acetylene tip is an SC12 series while the Propane/Natural Gas is an SC40.

ITEM No.	TIP SIZE	TYPE	PKG. QTY.
12536	00	Acetylene	1
12537	0	Acetylene	1
12538	1	Acetylene	1
12539	2	Acetylene	1
12540	3	Acetylene	1
12541	4	Acetylene	1
12606	00	Propane/Natural Gas	1
12607	0	Propane/Natural Gas	1
12608	1	Propane/Natural Gas	1
12609	2	Propane/Natural Gas	1
12610	3	Propane/Natural Gas	1
12611	4	Propane/Natural Gas	1



12538



12607

TIPS & NOZZLES



12548



12543



12562



12556



12565



12569

Smith Style Cutting Tips (MC12/MC40)

Available in 2 types of tips. Both tips have a medium preheat and are used for general cutting. The Acetylene tip is a MC12 series and the Propane/Natural Gas is an MC40 series.

ITEM No.	TIP SIZE	TYPE	PKG. QTY.
12542	0	Acetylene	1
12543	1	Acetylene	1
12544	2	Acetylene	1
12545	3	Acetylene	1
12546	4	Acetylene	1
12547	0	Propane/Natural Gas	1
12548	1	Propane/Natural Gas	1
12549	2	Propane/Natural Gas	1
12550	3	Propane/Natural Gas	1
12551	4	Propane/Natural Gas	1

Victor Style Cutting Tips (1 Series) (GPN)

Available in 2 types of tips. Both tips have a medium preheat and are used for general cutting. The Acetylene tip is a 1-101 series and the Propane/Natural Gas is an GPN series.

ITEM No.	TIP SIZE	TYPE	PKG. QTY.
12552	000	Acetylene	1
12553	00	Acetylene	1
12554	0	Acetylene	1
12555	1	Acetylene	1
12556	2	Acetylene	1
12557	3	Acetylene	1
12558	4	Acetylene	1
12559	0	Propane/Natural Gas	1
12560	1	Propane/Natural Gas	1
12561	2	Propane/Natural Gas	1
12562	3	Propane/Natural Gas	1
12563	4	Propane/Natural Gas	1

Victor Style Acetylene Gouging Tips (1-118)

This is a 1-118 series gouging tip. Used for general purpose gouging, scarfing, weld removal, plate gouging and rivet removal.

ITEM No.	TIP SIZE	PKG. QTY.
12564	0	1
12565	2	1
12566	4	1

Victor Style Acetylene Welding Nozzle (Type W)

This is a complete Type W series assembly with mixer. Used for general purpose welding and preheating.

ITEM No.	TIP SIZE	PKG. QTY.
12567	000	1
12568	00	1
12569	0	1
12570	1	1
12571	2	1
12572	3	1
12573	4	1



TIPS & NOZZLES

Victor Style Acetylene Welding Tips (ET)

This elbow style, ET series tip replaces the W series. Used for general purpose welding and preheating.

ITEM No.	TIP SIZE	PKG. QTY.
12591	000	1
12592	00	1
12593	0	1
12594	1	1
12595	2	1
12596	3	1



12591

Victor Style Cutting Tips (3-GPN)

Available in 2 types of tips. Both tips have a medium preheat and are used for general cutting. The Acetylene tip is a 3-101 series and the Propane/Natural Gas is a 3-GPN series.

ITEM No.	TIP SIZE	TYPE	PKG. QTY.
12575	000	Acetylene	1
12576	00	Acetylene	1
12577	0	Acetylene	1
12578	1	Acetylene	1
12579	2	Acetylene	1
12580	3	Acetylene	1
12581	4	Acetylene	1
12582	5	Acetylene	1
12583	6	Acetylene	1
12584	000	Propane/Natural Gas	1
12585	00	Propane/Natural Gas	1
12586	0	Propane/Natural Gas	1
12587	1	Propane/Natural Gas	1
12588	2	Propane/Natural Gas	1
12589	3	Propane/Natural Gas	1
12590	4	Propane/Natural Gas	1



12578



12587

Victor Style Acetylene Welding Nozzles (W-1)

This W-1 series is complete with tip and mixer. Used for general purpose welding and preheating.

ITEM No.	TIP SIZE	PKG. QTY.
12597	000	1
12598	00	1
12599	0	1
12600	1	1
12601	2	1
12602	3	1
12603	4	1
12604	6	1



12600

Victor Style Acetylene Heating Rosebud Assembly (MFA)

This heating rosebud assembly is a MFA series. Used for general purpose heating, bending and straightening.

ITEM No.	SIZE	PKG. QTY.
12574	8	1



12574

Victor Style Acetylene Rosebud (MFA-1)

This rosebud assembly is a MFA-1 series. Used for general purpose heating, bending and straightening.

ITEM No.	SIZE	PKG. QTY.
12605	8	1



12605

TIPS & NOZZLES



Mig Welder Torch Liners



ITEM No.	STYLE	FITS MARQUETTE	SIZE
12854	Steel	M12205-5-6-7-9-10	10 Ft.

Firepower Mig Gun Nozzles



ITEM No	MODEL No.	SIZE	PKG. QTY.
FOR 180 AMP GUNS			
12855	FP21-37	3/8" Bore	1
12856	FP21-50	1/2" Bore	1
12857	FP21-62	5/8" Bore	1
12858	FP21-62FAS	5/8" Bore-Arc Spot	1
FOR 250 AMP GUNS			
12866	FP22-50	1/2" Bore	1
12867	FP22-62	5/8" Bore	1
12868	FP22-62FAS	5/8" Bore	1
FOR 400 AMP GUNS			
12870	FP24A-50	1/2" Bore	1
12871	FP24A-62	5/8" Bore	1
12872	FP22A-62FAS	5/8" Bore	1

Binzel & Tweco Spot Weld Nozzles



ITEM No.	OEM	FITS MARQUETTE	SIZE
12859	Binzel	M12179/M12180 M12183	5/8" (16mm)
12848	Binzel	M12179 / M12180 M12183	1/2" (12mm)
12849	Binzel	M1220, 4,5,6,7, M12209	5/8" (16mm)
12850	Binzel	M12210 / M12209	3/4" (20mm)
12851	Tweco	M12175 / M12185 M121801	5/8" (16mm)
12879	MillerMatic	185-M25 Torch	1/2" (12mm)
12880	MillerMatic	185-M15 Torch	1/2" (12mm)

Binzel & Tweco Mig Welder Contact Tips

Solid copper tips thread into diffusers. Match the tip to the wire size. All tips packaged in 10 per pack.



12940

STANDARD TIPS (10 PK)

For All Except M12210

ITEM No.	TIP	SIZE
12937	.023	(.6mm)
12938	.030	(.8mm)
12939	.035	(.9mm)
12940	.040	(1.1mm)

HEAVY DUTY TIPS (10 PK)

For M12210

ITEM No.	TIP	SIZE
12941	.023	(.6mm)
12942	.030	(.8mm)
12943	.035	(.9mm)
12944	.040	(1.1mm)

Bernard



12966

STANDARD TIPS (10 PK)

ITEM No.	TIP	SIZE
12964	.023	(.6mm)
12965	.030	(.8mm)
12966	.035	(.9mm)

STANDARD TIPS (10 PK)

ITEM No.	TIP	SIZE
12967	.023	(.6mm)
12968	.030	(.8mm)
12969	.035	(.9mm)

Lincoln



12873

STANDARD TIPS (10 PK)

ITEM No.	TIP	SIZE
12873	.023	(.6mm)
12874	.030	(.8mm)
12875	.035	(.9mm)

STANDARD TIPS (10 PK)

ITEM No.	TIP	SIZE
12876	.023	(.6mm)
12877	.030	(.8mm)
12878	.035	(.9mm)

Firepower 180 Amp

250/400 Amp Guns



12981

STANDARD TIPS (10 PK)

For All Except M12210

ITEM No.	TIP	SIZE/I.D.
12976	.023	(.031)
12977	.030	(.038)
12978	.035	(.044)
12979	.040	(.048)
12980	.045	(.054)

HEAVY DUTY TIPS (10 PK)

For M12210

ITEM No.	TIP	SIZE/I.D.
12981	.023	(.031)
12982	.030	(.038)
12983	.035	(.044)
12984	.040	(.048)
12985	.045	(.059)



ROD & WIRE

6010/6013/6011 Welding Electrodes

6010 Welding Electrode

ITEM No.	SIZE	REC AMPERAGE	PKG. QTY.
11000	3/32"	20-75	1 lb.
11001	3/32"	20-75	5 lb.
11002	3/32"	20-75	10 lb.
11003	1/8"	75-130	1 lb.
11004	1/8"	75-130	5 lb.
11005	1/8"	75-130	10 lb.
11006	5/32"	100-175	1 lb.
11007	5/32"	100-175	5 lb.
11008	5/32"	100-175	10 lb.



This all position, mild steel rod provides smoother arc characteristics. Used for out of position welding, maintenance welding, galvanized steel, ship building and pipe line welding.

6013 Welding Electrode



This all position, all purpose, mild steel electrode has a stable arc designed for welding on clean, new metal.

Used for general purpose welding, build-up of shafts and machine parts.

ITEM No.	SIZE	REC AMPERAGE	PKG. QTY.
11024	3/32"	20-75	1 lb.
11025	3/32"	20-75	5 lb.
11026	3/32"	20-75	10 lb.
11027	3/32"	20-75	50 lb.
11028	3/32"	20-75	Job Pack
11029	1/8"	75-130	1 lb.
11030	1/8"	75-130	5 lb.
11031	1/8"	75-130	10 lb.
11032	1/8"	75-130	50 lb.
11033	1/8"	75-130	Job Pack
11034	5/32"	100-175	1 lb.
11035	5/32"	100-175	5 lb.
11036	5/32"	100-175	10 lb.
11037	5/32"	100-175	50 lb.
11038	5/32"	100-175	Job Pack

6011 Welding Electrode



This all position, all purpose, mild steel electrode has strong arc characteristics for deep penetration.

Used for tanks, steel castings, machinery parts, construction and pressure pipe.

ITEM No.	SIZE	REC AMPERAGE	PKG. QTY.
11009	3/32"	20-75	1 lb.
11010	3/32"	20-75	5 lb.
11011	3/32"	20-75	10 lb.
11012	3/32"	20-75	50 lb.
11013	3/32"	20-75	Job Pack
11014	1/8"	75-130	1 lb.
11015	1/8"	75-130	5 lb.
11016	1/8"	75-130	10 lb.
11017	1/8"	75-130	50 lb.
11018	1/8"	75-130	Job Pack
11019	5/32"	100-175	1 lb.
11020	5/32"	100-175	5 lb.
11021	5/32"	100-175	10 lb.
11022	5/32"	100-175	50 lb.
11023	5/32"	100-175	Job Pack

ROD & WIRE



E7014 Welding Electrode



This all position, mild steel iron powder type electrode has smooth arc characteristics for medium penetration.

Used for tanks, steel castings, machinery parts, construction and pressure pipe. Works best on clean steel applications.

ITEM No.	SIZE	REC AMPERAGE	PKG. QTY.
11039	3/32"	20-75	1 lb.
11040	3/32"	20-75	5 lb.
11041	3/32"	20-75	10lb.
11042	3/32"	20-75	50 lb.
11043	3/32"	20-75	Job Pack
11044	1/8"	75-130	1 lb.
11045	1/8"	75-130	5 lb.
11046	1/8"	75-130	10 lb.
11047	1/8"	75-130	50 lb.
11048	1/8"	75-130	JobPack
11049	5/32"	100-175	1 lb.
11050	5/32"	100-175	5 lb.
11051	5/32"	100-175	10 lb.
11052	5/32"	100-175	50 lb.
11053	5/32"	100-175	Job Pack

E7018 Welding Electrode



This all position, low hydrogen electrode provides high strength and toughness without cracking down the center of the bead.

For use on high carbon and cold rolled steel. Joins hard to weld steels easily.

ITEM No.	SIZE	REC AMPERAGE	PKG. QTY.
11054	3/32"	20-75	1 lb.
11055	3/32"	20-75	5 lb.
11056	3/32"	20-75	10 lb.
11057	3/32"	20-75	50 lb.
11058	3/32"	20-75	Job Pack
11059	1/8"	75-130	1 lb.
11060	1/8"	75-130	5 lb.
11061	1/8"	75-130	10 lb.
11062	1/8"	75-130	50 lb.
11063	1/8"	75-130	Job Pack
11064	5/32"	100-175	1 lb.
11065	5/32"	100-175	5 lb.
11066	5/32"	100-175	10 lb.
11067	5/32"	100-175	50 lb.
11083	5/32"	100-175	Job Pack
11131	1/4"	100-175	50 lb.
11132	3/16"	100-175	50 lb.

7018 AC Welding Electrode



All position rod for AC or DC reverse polarity current.

ITEM No.	SIZE	REC AMPERAGE	PKG. QTY.
11068	3/32"	20-75	1 lb.
11069	3/32"	20-75	5 lb.
11070	3/32"	20-75	10 lb.
11071	3/32"	20-75	50 lb.
11072	3/32"	20-75	Job Pack
11073	1/8"	75-130	1 lb.
11074	1/8"	75-130	5 lb.
11075	1/8"	75-130	10 lb.
11076	1/8"	75-130	50 lb.
11077	1/8"	75-130	Job Pack
11078	5/32"	100-175	1 lb.
11079	5/32"	100-175	5 lb.
11080	5/32"	100-175	10 lb.
11081	5/32"	100-175	50 lb.
11082	5/32"	100-175	Job Pack



ROD & WIRE

Hard Facing Welding Electrodes

High quality, graphite coated, hardfacing material, produces outstanding impact and abrasion resistance. This all position, AC or DC rod is designed to run at low temperature (53 to 57 "C").

Ideal for repairing all types of agriculture, construction equipment and concrete mixers.

<u>ITEM No.</u>	<u>SIZE</u>	<u>REC AMPERAGE</u>	<u>PKG. QTY.</u>
11094	1/8" x 14"	100-175	1 lb.
11095	1/8" x 14"	100-175	5 lb.
11096	1/8" x 14"	100-175	Job Pack



11094

Nomacast Electrodes

Made from mild steel-nickel alloy. Not machinable.

Used for welding cast iron and great for use on parts that do not expand from heat.

<u>ITEM No.</u>	<u>SIZE</u>	<u>REC AMPERAGE</u>	<u>PKG. QTY.</u>
11085	1/8"	100-175	1 lb.
11086	1/8"	100-175	5 lb.
11087	1/8"	100-175	Job Pack



11085

99% Nickel Cast Iron Electrodes

The highest quality nickel electrode available. The high nickel content has a natural attraction to cast iron, giving it superior performance when welding cast iron material. No preheating or post-heating. For machinable welds.

Used for engine blocks, surface build up, cracked castings, cylinder heads and exhaust manifolds.

<u>ITEM No.</u>	<u>SIZE</u>	<u>REC AMPERAGE</u>	<u>PKG. QTY.</u>
11088	1/8"	100-175	1 lb.
11089	1/8"	100-175	5 lb.
11090	1/8"	100-175	Job Pack



11089

55% Nickel Cast Iron Electrodes

The most versatile cast iron electrode, nickel wire designed for making non-machinable welds in cast iron. Welds well on dirty or corroded surfaces with a smooth arc at low amperages.

Used for repairing cylinder blocks, exhaust manifolds and machine bases.

<u>ITEM No.</u>	<u>SIZE</u>	<u>REC AMPERAGE</u>	<u>PKG. QTY.</u>
11091	1/8" x 14"	100-175	1 lb.
11092	1/8" x 14"	100-175	5 lb.
11093	1/8" x 14"	100-175	Job Pack



11092

ROD & WIRE



11097

ER 4043 Aluminum Electrodes

Flux coated aluminum electrode used for alloy and aluminum welding. Applications include: castings, plates, aluminum, sheet metal, piping and tanks. For flat horizontal and vertical welding.

ITEM No.	SIZE	REC AMPERAGE	PKG. QTY.
11097	1/8"	60-100	1 lb.
11098	1/8"	60-100	5 lb.
11099	1/8"	60-100	Job Pack



11109

ER 5356 Aluminum Rods Bare

Used for aluminum repair. For use with torch and aluminum flux.

ITEM No.	SIZE	PKG. QTY.
11109	3/32" x 36" Long	1 lb.
11110	1/8" x 36" Long	1 lb.
11124	3/32" x 36" Long Job Pack	6 Rods
11125	1/8" x 36" Long Job Pack	6 Rods



11101

Bare Brazing Rods

Made from a balance of zinc and copper alloy. These high quality, low fuming rods tin easily and offer great wear resistance. Brazing flux required. Good for brazing fenders, radiators, sheet metal and water tanks.

ITEM No.	SIZE	PKG. QTY.
11101	3/32" x 36" Long	1 lbs.
11102	1/8" x 36" Long	1 lbs.
11122	3/32" x 36" Long Job Pk.	6 Rods
11123	1/8" x 36" Long Job Pk.	6 Rods

Flux Coated Brazing Rods

This flux coated, low fuming brazing rod is strong and wear resistant. High quality and easy to tin, fuses well with cast iron, galvanized iron, steel, brass and copper. Good for use on autos, tanks and pipes.

ITEM No.	SIZE	PKG. WT.
11107	3/32" x 36" Long	1 lbs.
11108	1/8" x 36" Long	1 lbs.
11127	1/8" x 18" Long Job Pack	4 Rods



11107



ROD & WIRE

Hardfacing Rod

Alloy produces long wear and a mirror finish when polished. High abrasion resistance with moderate impact. Bonds easily. Great for thin wear edges on farm implements.

<u>ITEM No.</u>	<u>SIZE</u>	<u>PKG. QTY.</u>
11103	3/16" x 14" Long	1 lbs.
11128	3/16" x 18" Long	4 Rods



11103

RG45 Oxy - Acetylene Rods

Copper coating prevents rusting and improves corrosion resistance. An excellent all purpose rod for use in shops, home, maintenance and commercial.

<u>ITEM No.</u>	<u>SIZE</u>	<u>PKG. QTY.</u>
11104	1/16" x 36" Long	1 lbs.
11105	3/32" x 36" Long	1 lbs.
11106	1/8" x 36" Long	1 lbs.



11104

Super Sil-Flo

Self fluxing on copper. Substitute for 6% to 15% silver content brazing alloys for copper installations. Not recommended for iron or steel. Applications include: joints, couplings, pipe and copper tubing extensions and copper and brass control valves.

<u>ITEM No.</u>	<u>SIZE</u>	<u>REC AMPERAGE</u>	<u>PKG. WT.</u>
11100	1/8" x 18"	75-130	1/2 lb.
11121	1/8" x 18" Job Pk.	75-130	2 Rods



11100

E308L-16 Super 3 Stainless Steel Rods

All position, high strength chromium and nickel alloy electrode. Corrosion resistant in high and low temperatures. Crack resistant even on high carbon, manganese, stainless and dissimilar steels.

<u>ITEM No.</u>	<u>SIZE</u>	<u>REC AMPERAGE</u>	<u>PKG. QTY.</u>
11112	1/16"	80-110	1 lb.
11113	1/16"	80-110	5 lb.
11114	1/16"	80-110	Job Pack
11115	3/32"	60-100	1 lb.
11116	3/32"	60-100	5 lb.
11117	3/32"	60-100	Job Pack
11118	1/8"	60-100	1 lb.
11119	1/8"	60-100	5 lb.
11120	1/8"	60-100	Job Pack



11118

Storage Tube

Partitioned plastic storage tube allows you to keep 4 different types of electrodes in one container. Tight seal gasket prevents moisture from penetrating the rod. 14" maximum rod length. Convenient built-in belt hook.

<u>ITEM No.</u>	<u>DIMENSIONS</u>	<u>PKG. QTY.</u>
12050	15" x 3 1/4"	1



12050

ROD & WIRE



Aluminum/Gasless Flux/Mild Steel/Stainless MIG Wire



12011



12042



12008



12000



12013

Aluminum MIG Wire - ER 5356

Excellent for all types of aluminum welding. Made from premium aluminum. For use with aluminum alloys using MIG and TIG welding processes.

ITEM No.	WIRE TYPE	WIRE SZ.	SPOOL SZ.	PKG. QTY.
12011	Aluminum	.030	1 lb.	1
12012	Aluminum	.035	1 lb.	1
12061	Aluminum	.030	15 lb.	1
12062	Aluminum	.035	15 lb.	1

Aluminum MIG Wire - ER 4043

Made from premium aluminum. For use with aluminum alloys using MIG and TIG welding processes. Excellent for all types of aluminum welding.

ITEM No.	WIRE TYPE	WIRE SZ.	SPOOL SZ.	PKG. QTY.
12042	Aluminum	.030	1 lb.	1
12043	Aluminum	.035	1 lb.	1
12063	Aluminum	.030	15 lb.	1
12064	Aluminum	.035	15 lb.	1

Gasless Flux Cored MIG Wire (E 71T-GS)

This flux-cored steel wire is used without gas as a shielding agent on mig welders with reverse polarity. Produces a deep penetrating weld.

ITEM No.	WIRE TYPE	WIRE SZ.	SPOOL SZ.	PKG. QTY.
12008	Flux-cored Steel	.030	2 lb.	1
12021	Flux-cored Steel	.030	10 lb.	1
12009	Flux-cored Steel	.035	2 lb.	1
12010	Flux-cored Steel	.035	10 lb.	1

Mild Steel MIG Wire (ER70-S6)

Made from a premium mild steel, this wire has powerful deoxidizers for surface cleaning. Used for automobile repair, truck bodies, tanks, fabrication and construction jobs. Shielding gas required.

ITEM No.	WIRE TYPE	WIRE SZ.	SPOOL SZ.	PKG.
12000	Steel	.023	2 lb.	1
12001	Steel	.023	11 lb.	1
12051	Steel	.023	33 lb.	1
12002	Steel	.030	2 lb.	1
12003	Steel	.030	11 lb.	1
12004	Steel	.030	33 lb.	1
12005	Steel	.035	2 lb.	1
12006	Steel	.035	11 lb.	1
12007	Steel	.035	33 lb.	1
12052	Steel	.035	44 lb.	1

Stainless MIG Wire - ER308L

Made from premium stainless steel. Designed for horizontal and vertical welding. Use with 100% Argon/Shielding gas or 75% Argon/25% CO2. Excellent for the food and beverage industry, fabrication, tanker trucks and general maintenance and repair.

ITEM No.	WIRE TYPE	WIRE SZ.	SPOOL SZ.	PKG. QTY.
12013	Stainless Steel	.030	2 lb.	1
12014	Stainless Steel	.035	2 lb.	1



ROD & WIRE

Acid Flux Core Solder

Best used for non-electrical applications such as sheet metal joint and fitting connections.

ITEM No.	SIZE	GRADE	TENSILE STRENGTH	MELTING TEMP	WT.
12024	1/8"	40/60% Tin-Lead	4900	460	1/4 lb.
12025	1/8"	Commercial	----	575	1 lb.

Lead Free Wire Solder

100% Lead Free - 95% tin and 5% antimony alloy, lead free. Complies with federal and state laws prohibiting lead in water systems. Used for non-electrical applications such as: refrigeration and plumbing system repairs.

ITEM No.	SIZE	GRADE	TENSILE STRENGTH	MELTING TEMP	WT.
12015	1/8"	95/5% Tin-Ant	6000	464	1 lb.
12016	1/8"	95/5% Tin-Ant	6000	464	1/2 lb.
12017	1/8"	95/5% Tin-Ant	6000	464	1/4 lb.
12018	3/32"	95/5% Tin-Ant	6000	464	1/4 lb.
12019	3/32"	95/5% Tin-Ant	6000	464	1/2 lb.
12020	3/32"	95/5% Tin-Ant	6000	464	1 lb.

Rosin Flux Core Solder

Flux is a mild cleaning agent, but it is completely non-corrosive and electrically non-conductive. Works well on all types of electrical connections.

ITEM No.	SIZE	GRADE	TENSILE STRENGTH	MELTING TEMP	WT.
12026	1/16"	60/40% Tin-Lead	4900	460	1/4 lb.
12027	3/32"	40/60% Tin-Lead	4900	460	1/4 lb.
12028	3/32"	30/70% Tin-Lead	4500	491	1/2 lb.
12029	1/8"	Commercial	----	575	1 lb.

Solid Wire Solder

This solder must be used with paste or liquid flux. Used for general, non-electrical applications such as: radiator repairs and other general jobs.

ITEM No.	SIZE	GRADE	TENSILE STRENGTH	MELTING TEMP	WT.
12031	1/8"	30/70% Tin-Lead	4500	491	1/2 lb.
12032	1/8"	40/60% Tin-Lead	4900	460	1/4 lb.
12033	1/8"	50/50% Tin-Lead	5500	413	1/2 lb.
12034	3/32"	50/50% Tin-Lead	5500	421	1/4 lb.
12035	3/32"	40/60% Tin-Lead	4900	460	1/4 lb.

Paste Flux

A general purpose cleaning agent for soldering jobs.

ITEM No.	SIZE	PKG. QTY.
12038	2 oz.	1

Brazing Flux

To clean work piece before brazing.

ITEM No.	SIZE	Pk. Qty.
12040	1/2 lb. - Dry Brazing Flux	1
12041	1 lb. - Dry Brazing Flux	1

Silver Solder Kit

Lead free (non-toxic) metal only. Stored in pin pack to keep solder roll neat. For use with chrome plate, brass, nickel, copper and stainless steel. PSI: 8000.

ITEM No.	SIZE	DIAMETER
12036	.75 oz	1/16"
12037	4 oz. bottle of Flux	1050-1600



12024



12015



12026



12031



12038



12040



12036

ACCESSORIES



12248

Wrap-Around Pipe Template

This pipe template is made of a tough, flexible material with a protractor, scale and 45 degree angle markings. Used by all layout men, fitters and welders.

ITEM No.
12248

PKG. QTY.
1



12254



12253

Anti-Spatter Spray and Nozzle Gel

Anti-Spatter Spray: Environmentally safe spray reduces welding spatter. Made of non-toxic ingredients.

Nozzle Gel: Provides excellent protection against weld spatter build-up on MIG gun nozzles, contact tips, positioners, stud welding chucks and electrode holders on all automatic and semi-automatic welding apparatus. Will not cause porosity.

ITEM No.
12253
12254

ITEM
Nozzle Gel
Anti-Spatter Spray
All Water Based, Biodegradable

PKG. QTY.
1
1



12295

Cold Fire Welding Surface Protectant

Puts out Flames and Cools Hot Surfaces in Heat Sensitive Welding Applications!

Cold Fire is an excellent aerosol spray that instantly cools hot surfaces. It is environmentally safe, lending itself to welders, plumbers and homeowners alike

Can be used in plumbing applications to pre-spray an area before soldering to help prevent heat damage or reduce hidden fire risks.

ITEM No.
12295

ITEM
12 oz. Aerosol Spray

PKG. QTY.
1



12296

Cold Fire Welding Surface Protectant

This 32 oz. aerosol pump is excellent as a spot fire extinguisher for Class A,B and D (metal) fires. It is a time saver in welding processes. Can help eliminate disassembly of parts where heat damage is an issue. Can be used for same applications as the cans, only in a larger size pump.

ITEM No.
12296

ITEM
32 oz. pump

PKG. QTY.
1



ACCESSORIES

Spark Suppressor/Cable/Cutter/Connectors/Clamps

Welder's Spark Suppressor

12 VOLT SURGE PROTECTOR SYSTEM

Protects Car Computers from Possible Damage caused by Voltage Sparks while working on Vehicles!

A necessary welder's tool which can save you thousands of dollars in computer replacements. Easily connects to the car battery.

Eliminates transient spikes while welding. Reduces the risk of blowing the electronics of the vehicle when you strike a welding arc.

ITEM No.
14444

PKG. QTY.
1



14444

Cable

Exceptional abrasive resistance with maximum flexibility. Yellow safety liner for added protection.

ITEM No.	AMPS/LENGTH RATING	SIZE	GAUGE
12230	100 amps up to 75'	100' Box	4
12231	150 amps up to 100'	100' Box	2
12232	100 amps up to 125'	100' Box	1
12233	150 amps up to 100'	100' Box	1/0
12298	Battery and Automotive Cable – 105 Amps (Not for welding but for battery and other automotive uses.)		100' Box 6



12230

Cable Cutter

Heavy duty shears for cutting through cable and rubber hose. Designed for copper or aluminum cable.

ITEM No.
12234

PKG. QTY.
1



12234

Connectors

Cable Connector Sets

Fits cable sizes 6 - 2, Male and Female.

Heavy duty brass construction, locking cam-type connectors are used for light or heavy duty connecting applications, such as replacing old connectors or joining cables without soldering.

ITEM No.
12226
12227

SIZE
#4-1/0
#1/0-2/0

PKG. QTY.
1
1



12226

Battery Clamps

These heavy gauge steel battery charger clamps are for up to 400 Amps. They come equipped with cable lug - one red and black with insulated handles.

ITEM No.
12104

PKG. QTY.
1



12104

ACCESSORIES



12101

Electrode Holder

These light weight holders have fiberglass handles and jaw and are heat resistant. Highly conductive copper tongs are insulated for safe operation.

<u>ITEM No.</u>	<u>AMPERAGE</u>	<u>PKG. QTY.</u>
12100	200	1
12101	300	1
12102	500	1



12103

Stub Type Electrode Holder

This holder has jaws that lock onto the rod with a $\frac{1}{4}$ turn of the handle.

<u>ITEM No.</u>	<u>AMPERAGE</u>	<u>PKG. QTY.</u>
12103	400	1



12106

Steel Ground Clamps

Steel clamp is used for cable sizes to 2/0. The connection is made right to the wide grip jaws.

<u>ITEM No.</u>	<u>TYPE</u>	<u>AMPERAGE</u>	<u>PKG. QTY.</u>
12105	Steel	200	1
12106	Steel	300	1
12107	Steel	500	1



12108

Brass Ground Clamps

Brass Clamp is highly conductive and has a broad base for sliding under flat, heavy work.

<u>ITEM No.</u>	<u>TYPE</u>	<u>AMPERAGE</u>	<u>PKG. QTY.</u>
12108	Brass	200-300	1
12109	Brass	300-400	1



12113

Heavy Duty Copper Ground Clamp

This copper jaw clamp has a long-life rear spring. Wide Jaw for versatile positioning and positive grounding.

<u>ITEM No.</u>	<u>TYPE</u>	<u>AMPERAGE</u>	<u>PKG. QTY.</u>
12113	Copper Alloy Jaws	300-500	1

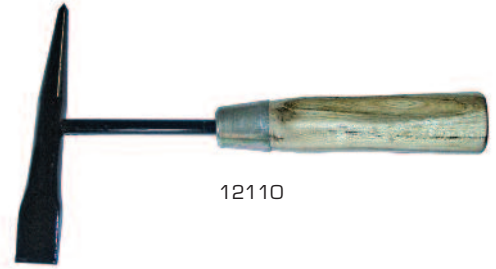


ACCESSORIES

Wooden Handle Chipping Hammer

Choose the straight head hammer for cleaning slag off metal. Wooden Handle.

ITEM No.	TYPE	PKG. QTY.
12110	Straight Head Chipping Hammer	1



12110

Spring Handle Chipping Hammer

The cross chisel hammer which has a head the opposite of the straight head. Metal spring handle.

ITEM No.	TYPE	PKG. QTY.
12111	Cross Chisel Chipping Hammer	1

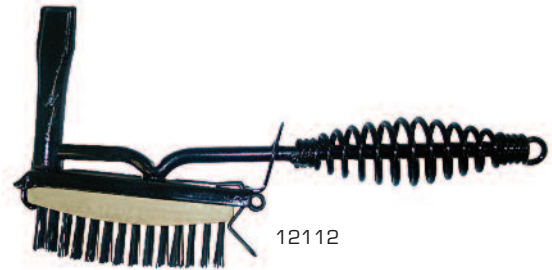


12111

Wire Brush and Chipping Hammer

The hammer with a detachable wire brush offers quick slag removal and weld cleaning. Replaceable brush.

ITEM No.	TYPE	PKG. QTY.
12112	Chipping Hammer w/Wire Brush	1
14020	Replaceable Wire Brush 4 3/4" Long x 3/4" Wide	1



12112



14020

Soapstone and Soapstone Holders

Choose from Round Aluminum or Flat Aluminum holder.



12214



12211

ITEM No.	TYPE	SIZE	PKG. QTY.
12211	Round Aluminum Holder	----	1
12212	Round Refill	1/4" x 5	10
12213	Bulk Round Refill	1/4" x 5	144
12214	Flat Aluminum Holder	----	1
12215	Flat Refill	3/16" x 1/2" x 5"	10
12216	Bulk Flat Refill	3/16" x 1/2" x 5"	144

ACCESSORIES



Tip Cleaner/Drill Set/Deburring Tool/Pencil/Lighters



Oxy-Acetylene Tip Cleaners

Both types are easy to use. Kit features circle design to provide 60 cleaning edges per inch. Kit includes file which fits all tip sizes.

Long cleaner has longer files for hard to reach areas. Recommended for heavy duty cutting attachments.

ITEM No.	STYLE	PKG. QTY.
12241	Regular Cleaner	1
12242	Long Cleaner	1



Tip Drill Set

This pencil type holder has 12 drills inside. Comes with a pocket clip.

Cleans and trues acetylene cutting and welding tip orifices.

ITEM No.	TYPE	PKG. QTY.
12243	Tip Drill Set	1
12244	Replacement Tip Drills	1

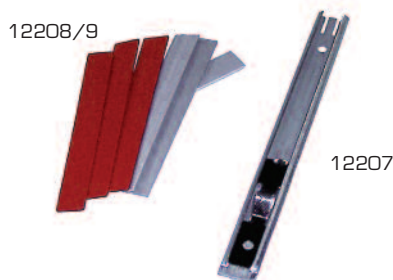


Deburring Tool

Tool has a heat treated, tempered steel cutting edge that swivels to ensure a good cutting action.

Used to debur metal and plastic pipe.

ITEM No.	SIZE	PKG. QTY.
12210	5"	1



Marking Pencil

This thin line pencil resists breakage and requires no sharpening.

ITEM No.	TYPE	PKG. QTY.
12207	Marking Pencil	1
12208	Refill - Silver	6
12209	Refill - Red	6

Oxy-Acetylene Lighters



The one flint lighter is lightweight, dependable and the large round file and hood make this the most popular in the welding industry.

The three flint lighter has a round file with three large flints and a bright plated finish. Rotate new flint into position when flint is worn out.

ITEM No.	STYLE	PKG. QTY.
12237	1 Flint Oxy - Acetylene Lighter	1
12238	Single Striker Replacement Flints	5
12239	3 Flint Oxy - Acetylene Lighter	1
12240	Triple Striker Replacement Flints	1



ACCESSORIES

Clamps

C - Clamps

Made with a high tensile frame and has a copper plated steel screw. The handle has a sliding pin and a rocking pad at the screw end.

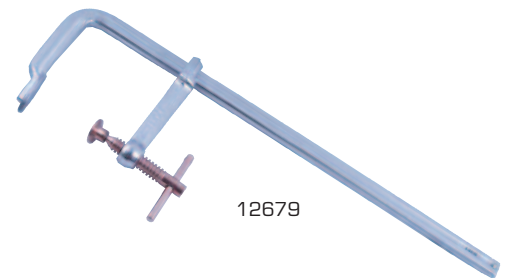
ITEM No.	SIZE	PKG. QTY.
12217	2"	1
12218	3"	1
12219	4"	1
12220	5"	1
12221	6"	1
12673	8"	1
12674	10"	1
12675	12"	1



F - Clamps

The "F" Clamp has a very rapid set up time. It is 90% faster than "C" Clamps. Made from drop forged, heat treated, plated steel. Screw and handle are copper coated to protect against weld spatter.

ITEM No.	SIZE	PKG. QTY.
12676	8"	1
12677	10"	1
12678	12"	1
12679	16"	1



Locking C - Clamp

Holds work tightly where you want it, allowing room to work around large pieces.

ITEM No.	SIZE	PKG. QTY.
12222	10 1/2" long	1



Locking Welding Clamp

Made of plated steel, this is the most secure method of holding two pieces of metal together for welding. Can be adjusted to different thicknesses.

ITEM No.	TYPE	PKG. QTY.
12223	Locking Welding Clamp	1



ACCESSORIES



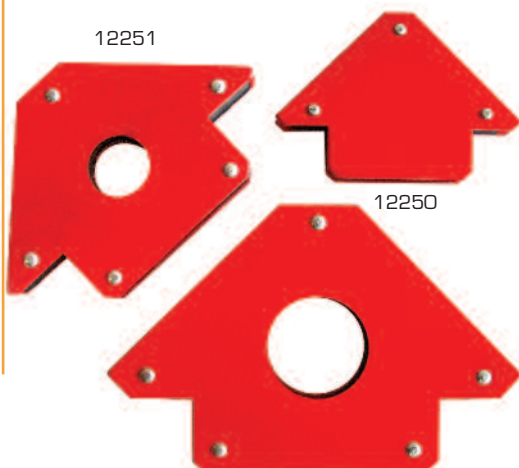
12245

Lightnin' Bug Torch Lighter

Electrically generates a spark. Tested to 30,000 strikes this patented lighter ignites all fuel gases quickly and easily, again and again. Well worth the investment as it never needs replacement flints.

Corrosion and rust resistant.

ITEM No.	TYPE	PKG. QTY.
12245	Packaged Lightnin' Bug	1



12251

12250

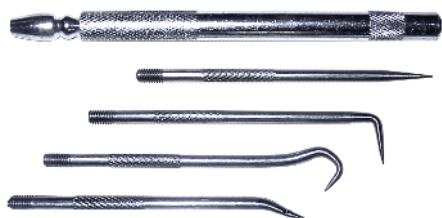
12252

Multi-Purpose Magnets

These magnets have an anisotropic ferrite magnet and a steel plate finish. Designed to hold ferrous metals at 45, 90 and 135 degrees angles.

Used for welding, soldering, assembly, pipe installation and holding of metal parts while welding.

ITEM No.	SIZE	NET WT	SUPPORTS	DIRECT	QTY
12250	2" x 2 1/2" x 1/2"	0.50	30 lbs.	20 lbs.	1
12251	2 3/4" x 3 1/4" x 9/16"	0.75	45 lbs.	33 lbs.	1
12252	3 5/8" x 4 1/16" x 3/4"	1.65	80 lbs.	55 lbs.	1



12201

4 Way Pick Kit

This four way repair kit has a knurled aluminum handle with four tempered steel picks. Comes in plastic pouch.

ITEM No.	TYPE	PKG. QTY.
12201	Repair Pick Kit	1

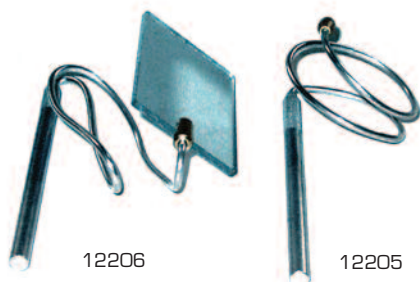


12202

Scribes

Premium scribe has a sharp tungsten carbide tip which leaves clear markings on metal, plastic, glass and tools. Comes with a replaceable tip and pocket clip.

ITEM No.	TYPE	PKG. QTY.
12202	Premium Scribe	1



12206

12205

Magnet and Mirror with Flexible Handle

The 17" long magnet can reach into tight places for ferrous metal objects. The mirror allows quick, clear inspection of obscure areas and can swivel 360 degrees. Plastic break resistant mirror.

ITEM No.	TYPE	PKG. QTY.
12205	Magnet with Flexible Handle	1
12206	Mirror with Flexible Handle	1

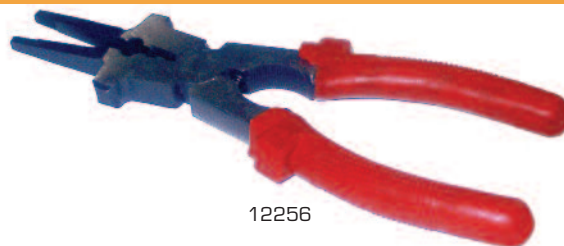


ACCESSORIES

Mig Welder Pliers for Multiple Jobs

This special designed Mig Plier is a must for all welders. It acts as a multi-purpose tool with multiple functions.

ITEM No.	ITEM	PKG. QTY.
12256	Mig Plier	1

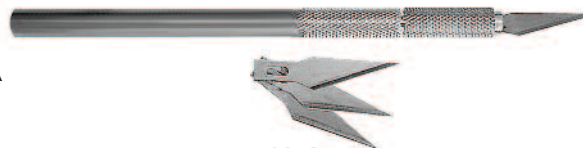


12256

Welders Utility Knife

This general purpose knife comes in handy for many jobs. A welder's essential tool.

ITEM No.	ITEM	PKG. QTY.
12258	Knife with 4 replacement blades.	1



12258

Deluxe Magnetic Welders Level

For use in all positions - horizontal, vertical and diagonal - magnetic level. Designed for engineers, plumbers, mechanics, sheet metal trades, carpenters and masons. This useful tool frees hands for work and stores easily in the pocket or work pouch. Dimensions: 9" x 1 1/4" x 1/2".

ITEM No.	ITEM	PKG. QTY.
12257	Welders Level	1

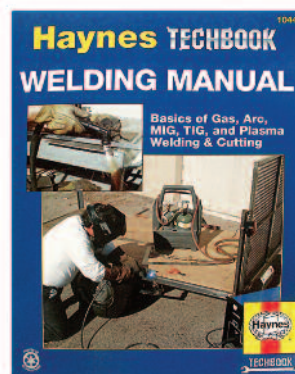


12257

Welding Manual

Contains basic guidelines for arc welding.

ITEM No.	PKG. QTY.
10999	1



10999

Wall Receptacles and Plugs

Choose from the pin style used for 2 pole, 3 wire grounding and surface mounted; or the crowfoot style with 3 equal slots and used for 2 pole, 3 wire grounding.

Male pin type plug has two brass blades and half pin, where the male crowfoot plug has three heavy duty brass blades.

Both are made of hardened bakelite and use 125/250 volt, 50 amps (pin type requires 250 volt). Made in México.

ITEM No.	TYPE	PKG. QTY.
12224	Pin Type Wall Receptacle (Parallel Blade)	1
12225	Crowfoot Type Wall Receptacle	1
12235	Male Pin Type Plug (Parallel Blade)	1
12236	Male Crowfoot Plug	1



12235

12224



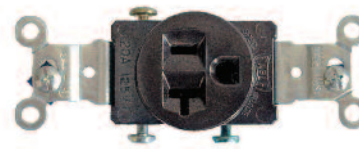
12225

12236

220 Volt Receptacle

20 Amp, 220 Volt receptacle. U.L. Listed. Made in México.

ITEM No.	TYPE	PKG. QTY.
12246	20 Amp - 125-220 Volt	1



12246

ACCESSORIES



12247

Crimping Tool

For crimping of copper terminal lugs. This heavy duty crimping tool is designed for ease. Spring action plunger that quickly crimps lugs with the use of a hammer

ITEM No.	NET Wt	QTY
12247	0.50	1

Cable Lugs

Made from copper and designed for a solid connection. Easy to swage and/or crimp.



12315



12312



12302

ITEM No.	CABLE SIZE	STUD SIZE	PKG. QTY.
12300	8	#10	2
12301	6	1/4"	2
12302	4	5/16"	2
12303	4	3/8"	2
12304	2-3	5/16"	2
12305	1	3/8"	2
12306	1/0	3/8"	2
12308	2/0	3/8"	2
12309	2-6	3/8"	2
12310	2/0	1/2"	2
12311	3/0	1/2"	2
12312	4/0	1/2"	2
12313	1-2	1/2"	2
12314	2-6	1/2"	2
12315	1/0-2/0	1/2"	2

Tank Adapters

Made for connections of oxygen and acetylene cylinders. For use in connecting a regulator to a tank with dissimilar connections.



12412



12413



12414



12415



12416



12418



12419



12421

ITEM No.	DESCRIPTION	PKG. QTY.
12412	Adapts CGA580 to CGA320	1
12413	Adapts CGA520 to CGA510 - B Tanks	1
12414	Adapts CGA520 to CGA200	1
12415	Adapts CGA510 to CGA520 - B Tanks	1
12416	Adapts CGA510 to CGA510 Rt. Angle	1
12418	Adapts CGA510 to CGA300	1
12419	Adapts CGA320 to CGA580	1
12421	Adapts CGA200 to CGA510 - MC Tanks	1



ACCESSORIES

Arch Torch Carbons

Copper coated these carbons are break resistant.

ITEM No.	SIZE	PKG. QTY.
12462	1/4"	10
12463	3/16"	10



12462

10 - Way Cylinder Wrench

Made from forged steel, this wrench has 10 openings. Sizes include: 7/16", 1/2", 9/16", 5/8", 11/16", 7/8", 1", 1 1/8" plus a 1/4" socket and a 3/8" square BMC. Made in China.

ITEM No.	PKG. QTY.
16100	1



16100

Cylinder Wrench

3/8" square opening for use on acetylene tanks. Made in Taiwan.

ITEM No.	SIZE	PKG. QTY.
16101	5" Long	1



16101

T - Type Cylinder Wrench

For use on acetylene tanks. Durable steel construction. 5" T-bar and 6" shank. Made in Taiwan.

ITEM No.	SIZE	PKG. QTY.
16102	3/8"	1
16103	1/4"	1



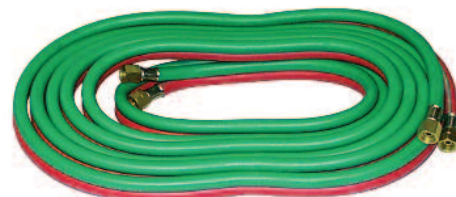
16102

16103

Oxy - Acetylene Hose Set

This rugged Type R, flexible hose is kink proof and has a neoprene cover. Rated to 100 PSI .

ITEM No.	DIAMETER	LENGTH	PKG. QTY.
12263	3/16"	12.5'	1
12264	3/16"	20'	1
12265	3/16"	25'	1
12266	3/16"	50'	1
12268	1/4"	12.5'	1
12269	1/4"	20'	1
12270	1/4"	25'	1
12271	1/4"	50'	1



12263

Hose Repair Crimping Tool

Used to perform hose fitting repairs.

ITEM No.	PKG. QTY.
12261	1



12261

ACCESSORIES



12260

Oxy - Acetylene Hose Repair Kit

Kit is complete with splicers, hose nuts, nipples, ferrules and couplers. Also includes a vise grip type crimping tool.

ITEM No.	PKG. QTY.
12260	1



12290

Hose Clamps

Hose clamps available in 2 sizes.

ITEM No.	SIZE	PKG. QTY.
12290	3/16"	2
12289	1/4"	2



12283

Oxy - Acetylene Hose End Repair Kit

Set includes two complete hose end sets for 3/16" or 1/4" hose.

ITEM No.	SIZE	PKG. QTY.
12283	3/16"	6
12284	1/4"	6



12272

Brass Hose Ferrules

ITEM No.	SIZE	TYPE	PKG. QTY.
12272	3/16"	Oxy - Acetylene	5
12273	1/4"	Oxy - Acetylene	5



12274

12275

Hose Brace

ITEM No.	SIZE	TYPE	PKG. QTY.
12274	3/16"	Oxy - Acetylene	5
12275	1/4"	Oxy - Acetylene	5



12278

Hose Couplers "B" Fitting

ITEM No.	TYPE	PKG. QTY.
12278	Acetylene	2
12279	Oxygen	2



12287

Hose Nuts "B" Fitting

ITEM No.	SIZE	TYPE	PKG. QTY.
12287	9/16"	Acetylene	2
12288	9/16"	Oxygen	2



ACCESSORIES

Oxy - Acetylene Hose Splicers

Used for joining 3/16" or 1/4" ends.

ITEM No.	SIZE	TYPE	PKG. QTY.
12280	3/16"	Oxy - Acetylene	2
12281	1/4"	Oxy - Acetylene	2



12281

Oxy - Acetylene Hose Splicer Kit

Set includes one splice coupler for connecting a 3/16" torch to a 1/4" hose.

ITEM No.	SIZE	PKG. QTY.
12285	3/16"	1
12286	1/4"	1



12285

Oxy - Acetylene Connectors

Used for joining 3/16" or 1/4" ends.

ITEM No.	HOSE SIZE	TYPE/CONNECTION SZ.	PKG. QTY.
12291	1/4" ID	Oxygen to 1/4"	1
12292	1/4" ID	Acetylene to 1/4"	1
12293	3/16" ID	Oxygen to 3/16"	1
12294	3/16" ID	Acetylene to 3/16"	1



12295

Barbed Hose Nipples

ITEM No.	SIZE	TYPE	PKG. QTY.
12276	3/16"	Oxy - Acetylene	2
12277	1/4"	Oxy - Acetylene	2



12276

Oxygen Acetylene Gauges



12440



12422



12428

High quality brass gauges. Bourdon-Tube style gauges.

1 1/2" Acetylene For Light Duty Kit #150

ITEM No.	TYPE	SIZE	POUNDS	PKG. QTY.
12440	All Gases	1/8"NPT	0-400	1
12441	All Gases	1/8"NPT	0-4000	1

2" For Medium Duty Kit #250

ITEM No.	TYPE	SIZE	POUNDS	PKG. QTY.
12422	Acetylene Only	1/4"NPT	0-30	1
12423	All Gases	1/4"NPT	0-60	1
12424	All Gases	1/4"NPT	0-100	1
12425	All Gases	1/4"NPT	0-400	1
12426	All Gases	1/4"NPT	0-4000	1

2 1/2" For Heavy Duty Kit #350

ITEM No.	TYPE	SIZE	POUNDS	PKG. QTY.
12427	Acetylene Only	1/4"NPT	0-30	1
12428	All Gases	1/4"NPT	0-200	1
12429	All Gases	1/4"NPT	0-400	1
12430	All Gases	1/4"NPT	0-4000	1

ACCESSORIES



12447

Flashback Arrestors

ITEM No.	TYPE	DESCRIPTION	PKG. QTY.
12446	Torch	with check valves	2
12447	Regulator	with check valves	2
12448	Kwik-Connect	"B" 9/16"-18 Threads	2



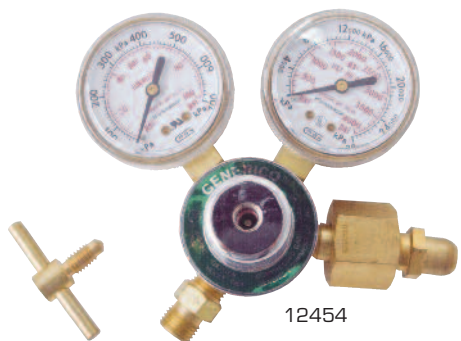
12449

Reverse Flow Check Valves

Valves used to prevent gases from backing up and mixing in the regulators. For use on single or two stage regulators with 1/4" NPT outlet. Sold in pairs.

ITEM No.	PKG. QTY.
12449	2

Single Stage Regulators



12454

Replacements For Series 150 Kits-UL Listed

ITEM No.	TYPE	SIZE	POUNDS
12454	Oxygen	50 mm	540 CGA, 4-60 PSIG
12455	Acetylene	50 mm	510 CGA, 2-15 PSIG

Replacements For Series 250 Kits-UL Listed

ITEM No.	TYPE	SIZE	POUNDS
12459	Oxygen	2"	540 CGA 5-125 PSIG
12460	Acetylene	2"	510 CGA 2-15 PSIG



12443

Replacements For Series 350 Kits-UL Listed

ITEM No.	TYPE	SIZE	POUNDS
12442	Oxygen	2 1/2"	540 CGA 2-125 PSIG
12443	Oxygen	2 1/2"	540 CGA 10-200 PSIG
12444	Acetylene	2 1/2"	510 CGA 2-15 PSIG
12445	Acetylene	2 1/2"	300 CGA 2-15 PSIG



ABRASIVES

These high quality, double fiberglass reinforced wheels are used on die grinders, chop saws, and circular saws. Made from aluminum oxide grain, they are for steel cutting only. Never cut wood or fiberglass with this product. Always wear full face shield and follow ANSI B7.1 regulations.

3"-14" Cut-Off Wheels

ITEM No.	DIAMETER	THICKNESS	ARBOR	GRIT	RPM	Pkg. QTY.	
12700	3"	1/32"	3/8"	60	25,000	10	3" Aluminum Oxide Resin Bonded Cut-Off Wheels
12701	3"	1/32"	3/8"	60	25,000	50	
12702	3"	1/16"	1/4"	54	25,000	10	
12703	3"	1/16"	1/4"	54	25,000	50	
12704	3"	1/16"	3/8"	54	25,000	10	
12705	3"	1/16"	3/8"	54	25,000	50	
12706	3"	1/8"	1/4"	54	25,000	10	
12707	3"	1/8"	1/4"	54	25,000	50	
12708	3"	1/8"	3/8"	54	25,000	10	
12709	3"	1/8"	3/8"	54	25,000	50	
12757	3" ZIRCONIA	1/16"	3/8"	54	25,000	6	4"-4 1/2" Aluminum Oxide Resin Bonded Cut-Off Wheels
12758	3" ZIRCONIA	1/32"	3/8"	60	25,000	6	
12710	4"	1/32"	3/8"	60	21,000	10	
12711	4"	1/32"	3/8"	60	21,000	50	
12712	4"	1/16"	3/8"	54	21,000	10	
12713	4"	1/16"	3/8"	54	21,000	50	
12714	4"	1/8"	3/8"	54	21,000	10	
12715	4"	1/8"	3/8"	54	21,000	50	
12716	4"	1/16"	5/8"	54	15,300	10	
12717	4"	1/16"	5/8"	54	15,300	50	
12718	4"	1/16"	1/4"	54	21,000	10	
12719	4"	1/16"	1/4"	54	21,000	50	
12720	4 1/2"	3/32"	3/8"	54	7,500	10	
12721	4 1/2"	3/32"	3/8"	54	7,500	25	
12722	4 1/2"	3/32"	7/8"	54	7,500	10	
12723	4 1/2"	3/32"	7/8"	54	7,500	25	
13065	4 1/2"	3/32"	3/8"	46	17,500	10	
13066	4 1/2"	3/32"	7/8"	46	17,500	10	
13067	4 1/2"	1/16"	7/8"	46	17,500	10	
13068	4 1/2"	.045	7/8"	46	17,500	10	
13150	5"	3/64"	7/8"	46	12,200	1	5"-6" Aluminum Oxide Resin Bonded Cut-Off Wheels
13151	5"	3/64"	7/8"	46	12,200	5	
13152	5"	.045	7/8"	46	10,200	1	
13153	5"	.045	7/8"	46	10,200	5	
13154	6"	.040	7/8"	46	10,200	1	
13155	6"	.040	7/8"	46	10,200	5	7"-8" Aluminum Oxide Resin Bonded Cut-Off Wheels
13069	7"	1/8"	5/8"-Diamond	36	8,700	5	
13055	7"	.045	5/8"	60	8,600	5	
13056	7"	3/32"	5/8"-Diamond	60	8,600	5	
12724	7"	1/8"	5/8"	36	8,700	1	
12725	7"	1/8"	5/8"	36	8,700	25	
13070	8"	1/8"	5/8"-Diamond	36	7,600	5	
13057	8"	.045	5/8"	60	8,600	5	12"-14" Aluminum Oxide Resin Bonded Cut-Off Wheels
12726	12"	1/8"	1"	36	5,100	1	
12727	12"	1/8"	1"	36	5,100	10	
12728	14"	1/8"	1"	36	4,400	1	
12729	14"	1/8"	1"	36	4,400	10	

ABRASIVES



Type 1 / Type 27 Cut-Off Wheels



Type 1 - 4" - 7" Stainless Steel Cut-Off Wheels

ITEM No.	DIA.	THICKNESS	ARBOR	GRIT	RPM	PKG	MASTER PACK
13021	4"	.045	5/8"	60	15,300	10/PK	10 PKGS
13022	4"	.045	5/8"	60	15,300	25/PK	4 PKGS
13023	4 1/2"	.045	7/8"	60	13,300	10/PK	10 PKGS
13024	4 1/2"	.045	7/8"	60	13,300	25/PK	4 PKGS
13028	5"	.045	7/8"	60	12,250	5/PK	10 PKGS
13029	5"	.045	7/8"	60	12,250	25/PK	4 PKGS
13030	6"	.045	7/8"	60	10,200	5/PK	10 PKGS
13031	6"	.045	7/8"	60	10,200	25/PK	4 PKGS
13032	7"	.045	7/8"	60	8,600	5/PK	10 PKGS
13033	7"	.045	7/8"	60	8,600	25/PK	4 PKGS

Type 27 - 4" - 7" Stainless Steel Cut-Off Wheels

ITEM No.	DIA.	THICKNESS	ARBOR	GRIT	RPM	PKG	MASTER PACK
13034	4"	.045	5/8"	60	15,300	10/PK	10 PKGS
13035	4"	.045	5/8"	60	15,300	25/PK	4 PKGS
13036	4 1/2"	.045	7/8"	60	13,300	10/PK	10 PKGS
13037	4 1/2"	.045	7/8"	60	13,300	25/PK	4 PKGS
13038	5"	.045	7/8"	60	12,250	5/PK	10 PKGS
13039	5"	.045	7/8"	60	12,250	25/PK	4 PKGS
13040	6"	.045	7/8"	60	10,200	5/PK	10 PKGS
13041	6"	.045	7/8"	60	10,200	25/PK	4 PKGS
13042	7"	.045	7/8"	60	8,600	5/PK	10 PKGS
13043	7"	.045	7/8"	60	8,600	25/PK	4 PKGS

Type 27 - 4 - 4 1/2" Metal/Stainless Steel Cutting/Notching Wheels

ITEM No.	DIA.	THICKNESS	ARBOR	GRIT	RPM	PKG	MASTER PACK
13044	4"	1/8"	3/8"	60	15,300	10/PK	10 PKGS
13045	4"	1/8"	5/8"	60	15,300	25/PK	4 PKGS
13046	4 1/2"	1/8"	7/8"	60	13,300	10/PK	10 PKGS
13047	4 1/2"	1/8"	7/8"	60	13,300	25/PK	4 PKGS
13048	4 1/2"	1/8"	5/8-11NC	60	13,300	5/PK	10 PKGS

4 1/2" - 7" Type 27 Pipeline Cut-Off/Light Grinding Wheels

Specially designed for Light Grinding and Cutting. When working on pipelines, use for light grinding or cutting of root pass or welds.

ITEM No.	DIA.	THICKNESS	ARBOR	GRIT	RPM	PKG	MASTER PACK
13049	4 1/2"	1/8"	7/8"	24	13,300	10/PK	5 PKGS
13050	4 1/2"	1/8"	5/8-11NC	24	13,300	10/PK	5 PKGS
13051	6"	1/8"	7/8"	24	10,020	5/PK	5 PKGS
13052	6"	1/8"	5/8-11NC	24	10,020	5/PK	5 PKGS
13053	7"	1/8"	7/8"	24	8,600	5/PK	5 PKGS
13054	7"	1/8"	5/8-11NC	24	8,600	5/PK	5 PKGS



ABRASIVES

Cut-off Wheel/Mandrels and Sets

Made from high-tensile steel, ensuring durability. For 1/4" and 3/8" arbors.

ITEM No.	DESCRIPTION	Pkg. QTY.
12935	1/4" & 3/8" Adaptor - 1/4" Shank	1
12693	1/2" Adaptor - 1/4" Shank	1

Cut-off wheels (6) with the above mandrel in a package.

ITEM No.	DESCRIPTION	Pkg. QTY.
12730	(6) - 3" x 1/16" x 3/8" wheels with #12935 mandrel.	1



Masonry Cut-off Wheels

Fast cutting, double-reinforced abrasive wheels. Made from silicon carbide, they provide a smooth cut. Used for cutting bricks, concrete, natural and artificial stones. Also for use on ceramics, plastic and other non-metallic materials.

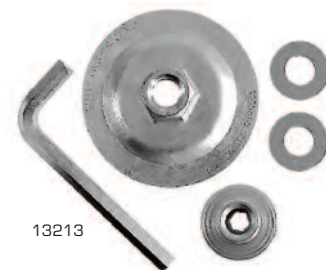
ITEM No.	DIAMETER	ARBOR	RPM	Pkg. QTY.
12694	7" x 1/8"	5/8" Diamond	8,700	1
12695	7" x 1/8"	5/8" Diamond	8,700	10
12696	12" x 1/8"	1"	5,100	1
12697	12" x 1/8"	1"	5,100	10
12698	14" x 1/8"	1"	4,400	1
12699	14" x 1/8"	1"	4,400	10



Depressed Center Wheel Adaptor

Adaptor readily adapts any depressed center wheel with a 7/8" Hole to a 5/8"-11 NCRH spindle for use with a standard right angle grinder. Wrench included.

ITEM No.	Pkg. QTY.
13213	1 Kit



Type 27 No Hub Depressed Center Wheels

Hubless Aluminum Oxide grinding wheels. To be used on air or electric powered right angle grinders. Never use on high speed air sanders. Always follow ANSI B7.1 regulations.

For use on auto body work and metal fabrication.

ITEM No.	DIAMETER	ARBOR	RPM	Pkg. QTY.
12731	4" x 1/8"	5/8"	13,700	4
12732	4" x 1/4"	5/8"	13,700	3
12733	4" x 1/4"	5/8"	13,700	25
12734	4 1/2" x 1/4"	7/8"	11,900	3
12735	4 1/2" x 1/4"	7/8"	11,900	25
12736	5" x 1/4"	7/8"	12,200	1
12737	5" x 1/4"	7/8"	12,200	25
12738	7" x 1/4"	7/8"	8,500	1
12739	9" x 1/4"	7/8"	6,500	1
12740	9" x 1/4"	7/8"	6,500	10
12741	7" x 1/4"	7/8"	8,500	10



Mandrels/Masonry Wheels/Depressed Center-Hub & No Hub

ABRASIVES



Type 27 Grinding Wheels



12752



12746



12742



13063

Hubbed Type 27 Depressed Center Wheels

Aluminum Oxide grinding wheels with hub. For use on air or electric powered right angle grinder. Never use on high speed air sanders. Always follow ANSI B7.1 regulations. Use for auto body work and metal fabrication.

ITEM No.	DIAMETER	ARBOR	RPM	PKG. QTY.
12750	4 1/2" x 1/4"	5/8-11	11,900	1
12751	4 1/2" x 1/4"	5/8-11	11,900	25
12752	7" x 1/8"	5/8-11	8,500	1
12753	7" x 1/4"	5/8-11	8,500	1
12754	7" x 1/4"	5/8-11	8,500	10
12755	9" x 1/4"	5/8-11	6,500	1
12756	9" x 1/4"	5/8-11	6,500	10

Type 27 Hubbed Masonry Grinding Wheels

Silicon carbide grinding wheels with hub. These self-cleaning wheels are double reinforced for strength and provide a better cutting action when working with concrete. Works especially well for grinding natural or artificial stone, ceramic, plastic and non-ferrous metals.

ITEM No.	DIAMETER	ARBOR	RPM	PKG. QTY.
12746	7" x 1/4"	5/8-11	8,500	1
12747	7" x 1/4"	5/8-11	8,500	25
12748	9" x 1/4"	5/8-11	6,500	1
12749	9" x 1/4"	5/8-11	6,500	25

Type 27 Hubbleless Masonry Grinding Wheels

Silicon carbide hubbleless grinding wheels. These self-cleaning wheels are double reinforced and work especially well for cutting natural or artificial stone, ceramic, plastic and non-ferrous metals.

ITEM No.	DIAMETER	ARBOR	RPM	PKG. QTY.
12742	4" x 1/4"	5/8"	13,500	1
12743	4" x 1/4"	5/8"	13,500	25
12744	4 1/2" x 1/4"	7/8"	13,300	1
12745	4 1/2" x 1/4"	7/8"	13,300	25

Type 27 Grinding Wheels for Aluminum

Depressed center silicon carbide, fiberglass reinforced grinding wheels. For use when grinding aluminum. Always comply with ANSI B7.1 Regulations.

ITEM No.	DIAMETER	ARBOR	RPM	PKG. QTY.
13063	4 1/2" x 1/4"	7/8"	13,300	5
13064	4 1/2" x 1/4"	5/8-11	13,300	5
12763	7" x 1/4"	7/8"	8,500	1
12764	7" x 1/4"	5/8-11	8,500	10



ABRASIVES

Grinding Wheels

Hubbed Type 28 Koolie Hat Grinding Wheels

Aluminum Oxide, fiberglass reinforced grinding discs with a threaded zinc hub. Grinding angle allows for more aggressive grinding than Type 27 wheels. Excellent for use on pipeline, but also can be used as a general purpose disc.

ITEM No.	DIAMETER	ARBOR	RPM	PKG. QTY.
12759	7" x 1/4"	5/8-11	8,500	1
12760	7" x 1/4"	5/8-11	8,500	10
12761	9" x 1/4"	5/8-11	6,000	1
12762	9" x 1/4"	5/8-11	6,000	10



12759

Flexible Grinding Wheels

1/8" thick, conforming, double reinforced grinding wheel that becomes more pliable when used, and flexes to follow contoured surfaces. Use on angle head grinders. For grinding a wide range of materials.

ITEM No.	DIAMETER	GRIT	RPM	PKG. QTY.
12765	4" x 5/8"	36	15,500	1
12766	4" x 5/8"	60	15,500	1
12767	4 1/2" x 7/8"	36	13,300	1
12768	4 1/2" x 7/8"	60	13,300	1
12769	7" x 7/8"	36	8,500	1
12770	7" x 7/8"	60	8,500	1



12765

Type 1 Vitrified Bench Grinder Wheels

Aluminum Oxide, vitrified bonded grinding wheels with a 1" arbor hole. Used on stationery bench grinders. All wheels include adaptors to fit 1/2", 5/8" & 3/4" arbors. Use for general purpose sharpening and grinding of mild steel.

ITEM No.	DIAMETER	GRIT	RPM	PKG. QTY.
*12771	6" x 3/4"	36	3,850	1
*12772	6" x 3/4"	60	3,850	1
*12773	6" x 3/4"	80	3,850	1
*12774	6" x 1"	36	3,850	1
*12775	6" x 1"	60	3,850	1
*12776	6" x 1"	80	3,850	1
12777	7" x 1"	36	3,600	1
12778	7" x 1"	60	3,600	1
12779	7" x 1"	80	3,600	1
12780	8" x 1"	36	3,450	1
12781	8" x 1"	60	3,450	1



12773

* Comes clam shell display packaged.

ABRASIVES



Type 11 Cup Wheel



12782

Coarse aluminum oxide cup wheel is made from 16-20 grit and is resinoid bonded. Available in 3 different sizes for varying portable grinders.

General purpose grinding wheel is designed to remove large deposits on stone, masonry and non-ferrous materials.

ITEM No.	SIZE	ARBOR	RPM	PKG. QTY.
12690	4/3" x 2"	5/8-11NC	7,260	1
12691	5/3" x 2"	5/8-11NC	6,500	1
12692	6/4" x 2"	5/8-11NC	6,000	1

Mini Grinding Wheel Mandrels



12936

For use with 1" to 2 1/2" grinding wheels. Includes: 1/2", 3/4" and 1 1/4" long round head screws.

ITEM No.	SHAFT DIAMETER	PKG. QTY.
12936	1/4"	1

Telescoping Reducer Bushings



12784

Made of heavy duty plastic. Designed to adapt wheels with 1" or 1 1/4" arbors to fit 1/2", 5/8", 1or 3/4" shafts. 3 thickness options.

ITEM No.	ARBOR SIZE	PKG. QTY.
12783	1" O.D. Arbor x 1/2" Thick	3
12784	1" O.D. Arbor x 3/4" Thick	3
12785	1" O.D. Arbor x 1" Thick	3
12786	1 1/4" O.D. Arbor x 1" Thick	4

Mini-Mounted Grinding Wheels



12787

12788

12792

12791

12790

Made from vitrified Aluminum Oxide, these wheels use a 1/4" diameter mandrel and work with any electric drill (mandrel included). Great for use on carbon steel, wrought iron and bronze.

ITEM No.	DIAMETER	GRIT	RPM	PKG. QTY.
12787	1" x 1"	60	3,450	1
12788	1 1/2" x 1"	60	3,450	1
12789	2" x 1/4"	60	3,450	1
12790	2" x 1/2"	60	3,450	1
12791	2 1/2" x 1/4"	60	3,450	1
12792	2 1/2" x 1/2"	60	3,450	1

Mounted Points



12800

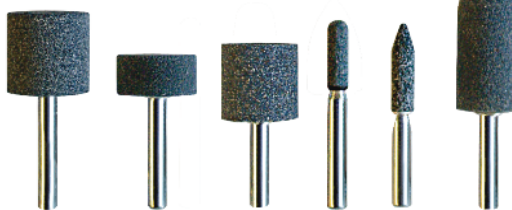
12793

12798

12794

12796

12801



12804

12803

12802

12799

12797

12795

Made from Aluminum Oxide with a 1/4" diameter shank. Use in high-speed air and electric grinders, for grinding welds in hard to reach areas. For grinding, deburring, grinding dies and polishing.

ITEM No.	DIAMETER	SHAPE	RPM	PKG. QTY.
12793	1 1/4" x 1 1/4"	A-4	30,560	1
12794	1 1/8" x 3/4"	A-5	45,000	1
12795	2" x 7/8"	A-11	19,860	1
12796	1 1/4" x 3/4"	A-12	48,000	1
12797	1 1/16" x 1/4"	A-15	72,750	1
12798	1" x 3/4"	A-23	39,370	1
12799	3/4" x 1/4"	A-24	76,500	1
12800	1 1/4" x 1"	A-2	38,200	1
12801	1" x 1"	A-25	35,620	1
12802	1" x 1"	A-38	34,500	1
12803	1/2" x 1"	W-218	38,200	1
12804	1" x 1"	W-220	25,500	1



ABRASIVES

Grinding Wheel Dresser

Made of heavy cast iron, this dresser is for use with wheels up to 10" diameter and 2" width.

ITEM No.	SIZE	PKG. QTY.
12932	10 1/2" Long	1



12932

Replacement Cutters

Made from high carbon steel with long lasting teeth. Hardened for long life service and proper dressing action. Also includes two spacers.

ITEM No.	DIAMETER	HOLE	FACE	PKG. QTY.
12933	1 1/4"	1/4"	.426"	4



12933

Dressing Stone

Grinding wheel dressing stone is used when redressing Type 1 vitrified bench grinding wheels.

ITEM No.	SIZE	GRIT	PKG. QTY.
12934	6"x1"x1"	24	1



12934

Twist-Lock Aluminum Oxide Grinding Discs

Aggressive, long-life discs are made from Aluminum Oxide and will aggressively grind welds. Flexible, long lasting discs resist chipping, snagging and cracking.

For use with an air die grinder, they are compatible with 3M® backing pads.

ITEM No.	DIAMETER	GRIT	RPM	PKG. QTY.
12840	2"	24	25,000	10
12841	2"	36	25,000	10
12842	2"	50	25,000	10
12843	2"	80	25,000	10
12844	3"	24	20,000	10
12845	3"	36	20,000	10
12846	3"	50	20,000	10
12847	3"	80	20,000	10



12844

12840

Quick Change Backing Pads

Quick change backing pads are for use with surface conditioning discs and are interchangeable with 3M® products.

ITEM No.	SIZE	DESC.	PKG. QTY.
13012	2"	Backing Pad	1
13013	3"	Backing Pad	1
13014	4"	Backing Pad	1



13013

ABRASIVES



Hand Pads/Emery Cloth



13017

Hand Pads

Made from Aluminum Oxide grain. Water resistance makes them great wet or dry. For use by hand or on an oscillating sander.

Used for general purpose light sanding on metal, plastic or wood.

ITEM No.	3M	SIZE	GRAIN	PKG. QTY.
13015	7445	6" x 9"	Very Fine / White	10
13016	6448	6" x 9"	Fine / Gray	10
13017	7447	6" x 9"	Medium / Maroon	10

Aluminum Oxide Emery Cloth Shop Rolls



12930

GENERAL PURPOSE ROLLS

Abrasive emery cloth rolls
For most shop needs.

Available in 1" & 1 1/2" widths!

ITEM No.	Old#	Description	Grit	M/C
12924		1" x 10 Yds.	80	5
12925		1" x 10 Yds.	120	5
12926		1" x 10 Yds.	180	5
12927		1" x 10 Yds.	320	5
12928		1" x 25 Yds.	80	5
12929		1" x 25 Yds.	120	5
12930		1" x 25 Yds.	180	5
12931		1" x 25 Yds.	320	5
12986	(SR0060)	1" x 50 Yds.	60	5
12987	(SR0080)	1" x 50 Yds.	80	5
12988	(SR0100)	1" x 50 Yds.	100	5
12989	(SR0120)	1" x 50 Yds.	120	5
12990	(SR0180)	1" x 50 Yds.	180	5
12991	(SR0320)	1" x 50 Yds.	320	5
12997	(SR0400)	1" x 50 Yds.	400	5
12992	(SR1060)	1 1/2" x 50 Yds.	60	5
12993	(SR1080)	1 1/2" x 50 Yds.	80	5
12994	(SR1100)	1 1/2" x 50 Yds.	100	5
12995	(SR1120)	1 1/2" x 50 Yds.	120	5
12996	(SR1180)	1 1/2" x 50 Yds.	180	5



ABRASIVES

Surface Conditioning Disc/Pads

Strip-Brite 2" & 3" Pads

Ideal for Aggressive Cleaning & Stripping Applications

- Rust Removal
- Weld Cleaning
- Coating or paint removal

Black Course Stripper Pad

ITEM No.	DIA.	DESCRIPTION	PKG. QTY.
6202	2"	Stripper Pad with Rol-lock Backing	2
6205	2"	Stripper Pad with Rol-lock Backing	5
6302	3"	Stripper Pad with Rol-lock Backing	2
6305	3"	Stripper Pad with Rol-lock Backing	5

Red Extra Course Stripper Pad

ITEM No.	DIA.	DESCRIPTION	PKG. QTY.
16202	2"	Red Stripper Pad with type "R" Button Backing	2
16203	3"	Red Stripper Pad with type "R" Button Backing	2



Quick - Change Surface Conditioning Discs

These flexible, non-woven discs are excellent for use on right angle and die grinders. The quick change locking device Type "R" helps reduce downtime. Can be used wet or dry.

Used for final cleaning, deburring, finishing, or rust and gasket removal.

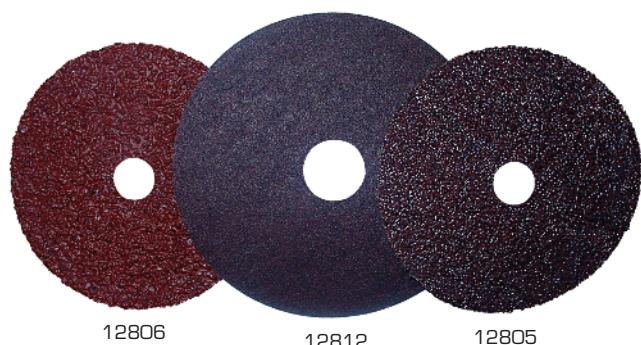


ITEM No.	SIZE	GRAIN	COLOR	3M#	PKG. QTY.
13000	2"	Coarse	Brown		10
13062	2"	Coarse	Brown	07480	25
621TB	2"	X-Tra Coarse	Brown	92679	25
13001	2"	Medium	Maroon		10
13018	2"	Medium	Maroon	07481	25
623TB	2"	Heavy Duty Medium	Maroon	83987	25
13002	2"	Fine	Gray	NA	10
13003	2"	Coarse	Brown		50
13004	2"	Medium	Maroon		50
13005	2"	Fine	Gray		50
13006	3"	Coarse	Brown		10
13019	3"	Coarse	Brown	07485	25
631TB	3"	X-Tra Coarse	Brown	92695	25
13007	3"	Medium	Maroon		10
13020	3"	Medium	Maroon	97486	25
633TB	3"	Heavy Duty Medium	Maroon	83995	25
13008	3"	Fine	Gray	NA	10
13009	4"	Coarse	Brown		10
641TB	4"	X-Tra Coarse	Brown	92513	25
13010	4"	Medium	Maroon		10
643TB	4"	Heavy Duty Medium	Maroon	N/A	25
13011	4"	Fine	Gray	N/A	10

ABRASIVES



Resin Fiber Sanding Discs



12806

12812

12805

Made from Aluminum Oxide. They are used for sanding, fine finishing and metal surface preparation needs.

ITEM No.	DIAMETER	GRIT	RPM	PKG. QTY.
12805	4" x 5/8" Arbor	16	15,000	3
12806	4" x 5/8" Arbor	24	15,000	3
12807	4" x 5/8" Arbor	36	15,000	3
12808	4" x 5/8" Arbor	50	15,000	3
12809	4" x 5/8" Arbor	80	15,000	3
12810	4" x 5/8" Arbor	100	15,000	3
12811	4" x 5/8" Arbor	120	15,000	3

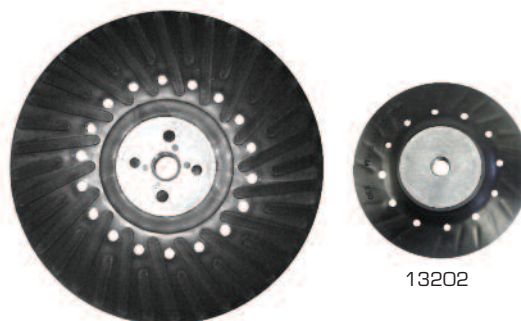
12812	4 1/2" x 7/8" Arbor	16	13,000	3
12813	4 1/2" x 7/8" Arbor	24	13,000	3
12814	4 1/2" x 7/8" Arbor	36	13,000	3
12815	4 1/2" x 7/8" Arbor	50	13,000	3
12816	4 1/2" x 7/8" Arbor	80	13,000	3
12817	4 1/2" x 7/8" Arbor	100	13,000	3
12818	4 1/2" x 7/8" Arbor	120	13,000	3

12819	5" x 7/8" Arbor	16	11,900	3
12820	5" x 7/8" Arbor	24	11,900	3
12821	5" x 7/8" Arbor	36	11,900	3
12822	5" x 7/8" Arbor	50	11,900	3
12823	5" x 7/8" Arbor	80	11,900	3
12824	5" x 7/8" Arbor	100	11,900	3
12825	5" x 7/8" Arbor	120	11,900	3

12826	7" x 7/8" Arbor	16	8,850	3
12827	7" x 7/8" Arbor	24	8,850	3
12828	7" x 7/8" Arbor	36	8,850	3
12829	7" x 7/8" Arbor	50	8,850	3
12830	7" x 7/8" Arbor	80	8,850	3
12831	7" x 7/8" Arbor	100	8,850	3
12832	7" x 7/8" Arbor	120	8,850	3

12833	9" x 7/8" Arbor	16	6,500	3
12834	9" x 7/8" Arbor	24	6,500	3
12835	9" x 7/8" Arbor	36	6,500	3
12836	9" x 7/8" Arbor	50	6,500	3
12837	9" x 7/8" Arbor	80	6,500	3
12838	9" x 7/8" Arbor	100	6,500	3
12839	9" x 7/8" Arbor	120	6,500	3

Back-Up Sanding Pads



13206

13202

Heavy duty, flexible back-up pads for use with sanding discs and buffing pads. Nut included.

ITEM No.	SIZE	NUT	PKG. QTY.
13201	4"	M10-1.25	1
13202	4"	M10-1.50	1
13203	4"	No Nut	1
13204	4 1/2"	5/8"-11	1
13205	5"	5/8"-11	1
13206	7"	5/8"-11	1
13207	7"	No Nut	1

Spindle Nuts for Rubber Pads



13211

Nut used to attach the pad to the tool, which are frequently lost.

ITEM No.	NUT SIZE	PKG. QTY.
13209	M10-1.25	1
13210	M10-1.50	1
13211	5/8"-11	1

Spindle Nut Wrench



13212

Adjustable wrench used for installation and removal of nuts with holes.

ITEM No.	PKG. QTY.
13212	1



ABRASIVES

Part# 7000 - 8 Piece Flap Wheel Kit

PART# 7000 INTRODUCTORY ASSORTMENT OF FLAP WHEELS.

A handy assortment of sizes and grits in an attractive clam shell package! Made from Aluminum Oxide sandpaper. This wheel assortment will be a great starter kit for the person using a variety of sizes and grits.

- 1/4" shanks

ITEM No.	OLD #	QTY	DIA.	HEIGHT	GRIT
ITEM No. 7000	13103	(F11120)	1"	1/2"	120
	13115	(F1560)	1 1/2"	1"	60
	13116	(F1580)	1 1/2"	1"	80
	13104	(F1340)	1"	1"	40
	13106	(F1380)	1"	1"	80
	13120	(F1180)	2"	1"	60
	13121	(F11120)	2"	1"	80



7000

Grinding Flap Wheels

Made of Aluminum Oxide abrasive grain for excellent performance, they are resin bonded to a cloth back. Excellent for polishing, contouring, dry sanding and grinding applications. Also used in rust removal, scaling and deburring. 1/4" shanks.

ITEM No.	(OLD#)	MARQUETTE	DIA.	HEIGHT	GRIT	BULK PACK.
13100	(F1160)	N/A	1"	1/2"	60	5
13101	(F1180)	N/A	1"	1/2"	80	5
13102	(F11100)	N/A	1"	1/2"	100	5
13103	(F11200)	N/A	1"	1/2"	120	5
13104	(F1340)	N/A	1"	1"	40	5
13105	(F1360)	M57209	1"	1"	60	5
13106	(F1380)	M57210	1"	1"	80	5
13107	(F13100)	M57211	1"	1"	100	5
13108	(F13120)	N/A	1"	1"	120	5
13109	(F1440)	N/A	1 1/2"	1/2"	40	5
13110	(F1460)	M47206	1 1/2"	1/2"	60	5
13111	(F1480)	M57207	1 1/2"	1/2"	80	5
13112	(F14100)	M57208	1 1/2"	1/2"	100	5
13113	(F14120)	N/A	1 1/2"	1/2"	120	5
13114	(F1540)	N/A	1 1/2"	1"	40	5
13115	(F1560)	N/A	1 1/2"	1"	60	5
13116	(F1580)	N/A	1 1/2"	1"	80	5
13117	(F15100)	N/A	1 1/2"	1"	100	5
13118	(F15120)	N/A	1 1/2"	1"	120	5
13119	(F240)	N/A	2"	1"	40	5
13120	(F260)	M57203	2"	1"	60	5
13121	(F280)	M57204	2"	1"	80	5
13122	(F2100)	M57205	2"	1"	100	5
13123	(F2120)	N/A	2"	1"	120	5
13124	(F2140)	N/A	2 1/2"	1"	40	5
13125	(F2160)	N/A	2 1/2"	1"	60	5
13126	(F2180)	N/A	2 1/2"	1"	80	5
13127	(F21100)	N/A	2 1/2"	1"	100	5
13128	(F21200)	N/A	2 1/2"	1"	120	5
13129	(F3140)	N/A	3"	1"	40	5
13130	(F3160)	M57200	3"	1"	60	5
13131	(F3180)	M57201	3"	1"	80	5
13132	(F31100)	M57202	3"	1"	100	5
13133	(F31120)	M57202	3"	1"	120	5



Single Package Quantity for Displays

ITEM No.	DIA.	HEIGHT	GRIT	PKG.
12912	1"	1"	60	1
12913	1"	1"	80	1
12914	1"	1"	120	1
12915	1 1/2"	1/2"	60	1
12916	1 1/2"	1/2"	80	1
12917	1 1/2"	1/2"	120	1
12918	2"	1"	60	1
12919	2"	1"	80	1
12920	2"	1"	120	1
12921	3"	1"	60	1
12922	3"	1"	80	1
12923	3"	1"	120	1

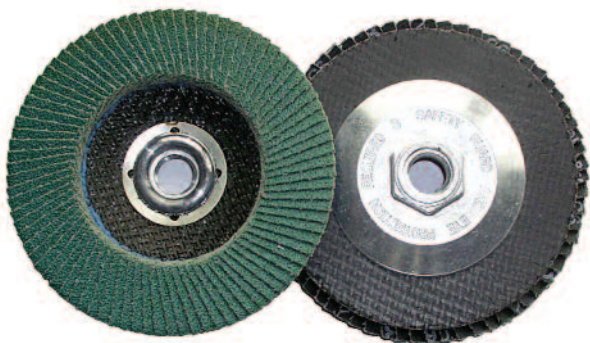
ABRASIVES



Type 27 / Type 29 Flap Disc

Flap Discs - Type 27

- Non-Loading
- Works on all High Speed Grinders
- Heavy Duty, Non metal backing plate
- Angled Face for Maximum Efficiency



TYPE 27 FLAT SHAPE

Unique design offers you a new cutting surface again and again!



Available in long Life Zirconia

Flap Discs - Zirconia - Hubbed/Non Hubbed

Made from long-life Zirconia, mounted on a rugged, light-weight fiberglass backing plate. Backing plate does not require a backup pad. Reduces loading. Used for metal fabricating, auto body and welding.

ITEM No.	DIA	ARBOR	GRIT	RPM	PKG. QTY.
13137	4"	7/8"	36	15,500	1
13138	4"	7/8"	60	15,500	1
13139	4"	7/8"	80	15,500	1
12906	4-1/2"	5/8-11NC	36	13,500	1
12907	4-1/2"	5/8-11NC	60	13,500	1
12908	4-1/2"	5/8-11NC	80	13,500	1
13134	4-1/2"	7/8"	36	13,500	1
13135	4-1/2"	7/8"	60	13,500	1
13136	4-1/2"	7/8"	80	13,500	1
12909	7"	5/8-11NC	36	8,600	1
12910	7"	5/8-11NC	60	8,600	1
12911	7"	5/8-11NC	80	8,600	1
13140	7"	7/8"	36	8,600	1
13141	7"	7/8"	60	8,600	1
13148	7"	7/8"	80	8,600	1

Flap Discs - Aluminum Oxide - Non - Hubbed

Made from Aluminum Oxide and mounted on a rugged, lightweight fiberglass backing plate. Backing plate does not require a backup pad. Reduces loading. Used for metal fabricating, auto body and welding.

ITEM No.	DIA	ARBOR	GRIT	RPM	PKG. QTY.
12900	4 1/2"	7/8"	36	13,500	1
12901	4 1/2"	7/8"	60	13,500	1
12902	4 1/2"	7/8"	80	13,500	1
12903	7"	7/8"	36	8,600	1
12904	7"	7/8"	60	8,600	1
12905	7"	7/8"	80	8,600	1

4-1/2" Beveled Shaped Flap Discs - Type 29



TYPE 29 BEVELED SHAPE

For better surface contact and use of the wheel



Beveled Flap Discs

- Maximum Efficiency Disc.
- Non-Loading
- Heavy Duty Backing Plate
- Works on all High Speed Grinders
- Angled Up for Full Surface Contact

Flap Discs - Aluminum Oxide - Hubbed/Non Hubbed

ITEM No.	DIAMETER	GRIT	DESCRIPTION
45736	4 1/2" x 7/8"	36	Aluminum Oxide
45737	4 1/2" x 5/8-11NC	36	Aluminum Oxide
45738	4 1/2" x 7/8"	60	Aluminum Oxide
45739	4 1/2" x 5/8-11NC	60	Aluminum Oxide
45740	4 1/2" x 7/8"	80	Aluminum Oxide
45741	4 1/2" x 5/8-11NC	80	Aluminum Oxide
45742	4 1/2" x 7/8"	120	Aluminum Oxide

Flap Discs - Zirconia - Hubbed/Non Hubbed

ITEM No.	DIAMETER	GRIT	DESCRIPTION
45836	4 1/2" x 7/8"	36	Zirconia
45837	4 1/2" x 5/8-11NC	36	Zirconia
45838	4 1/2" x 7/8"	60	Zirconia
45839	4 1/2" x 5/8-11NC	60	Zirconia
45840	4 1/2" x 7/8"	80	Zirconia
45841	4 1/2" x 5/8-11NC	80	Zirconia
45842	4 1/2" x 7/8"	120	Zirconia
45843	4 1/2" x 5/8-11NC	120	Zirconia



ABRASIVES

2" & 3" Mini Flap Discs - Aluminum Oxide & Zirconia

These Mini Flap Discs are perfect for small grinding needs in tight spots. They replace the Mini Grinding Discs, lasting up to 15 times longer, giving you improved longevity and a continual new surface! Available in 2" and 3", Aluminum Oxide or Zirconia, these come with a Twist-to-lock Backing Button (Type R) and will work on any competitor's holders that are compatible with the Type R Backing.

- Type "R" Compatible
- Non-Loading/Never Curls
- Heavy Duty Backing Built In
- Works on all High Speed Angle Die Grinders
- Maximum face contact
- Outlasts Mini Grinding Discs by 10-15 Times
- Available in Aluminum Oxide or Zirconia



73758

73762

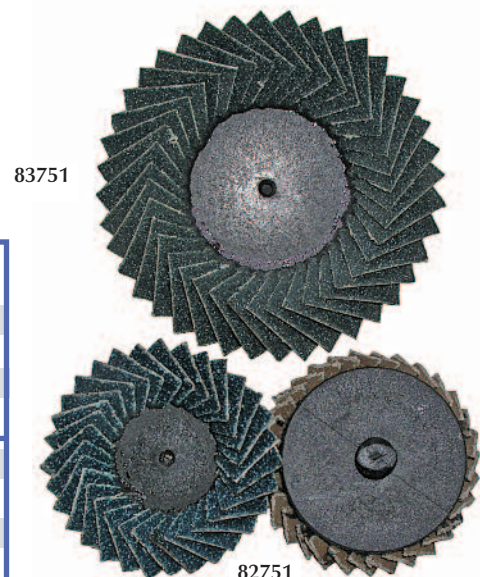
2" & 3" Aluminum Oxide-Type 27				
ITEM No.	PKG.QTY.	DIA.	RPM	GRIT
73752	5	2"	25,000	40
73753	5	2"	25,000	60
73754	5	2"	25,000	80
73755	5	2"	25,000	120
73757	5	3"	20,000	40
73758	5	3"	20,000	60
73759	5	3"	20,000	80
73760	5	3"	20,000	120

2" & 3" Zirconia- Type 27				
ITEM No.	PKG.QTY.	DIA.	RPM	GRIT
73762	5	2"	25,000	40
73763	5	2"	25,000	60
73764	5	2"	25,000	80
73765	5	2"	25,000	120
73767	5	3"	20,000	40
73768	5	3"	20,000	60
73769	5	3"	20,000	80
73770	5	3"	20,000	120

2" & 3" Mini Cup Flap Discs - Zirconia

- Type "R" Compatible
- Beveled Face for Maximum Efficiency
- Perfect for Rounded or Curvy Surfaces
- Works on all High Speed Grinders
- Heavy Duty Backing Pad Built In
- Long life - Non-Loading

ITEM No.	PKG.QTY.	DIA.	GRIT	RPM	DESCRIPTION
82751	2	2"	40	25,000	Zirconia
82752	2	2"	60	25,000	Zirconia
82753	2	2"	80	25,000	Zirconia
82754	2	2"	120	25,000	Zirconia
83751	2	3"	40	20,000	Zirconia
83752	2	3"	60	20,000	Zirconia
83753	2	3"	80	20,000	Zirconia
83754	2	3"	120	20,000	Zirconia



83751

82751

ABRASIVES



Rotary Files



12953 12957 12952 12955 12954

Can be used on bronze, mild steel, plastic and fiberglass.

Mounted on 1/4" shanks, these files are made from high speed steel, for tough jobs. All files are 1/2" diameter.

ITEM No.	SHAPE	RPM	PKG. QTY.
12951	1/4" Cylindrical *	2,500	1
12952	Round Tree	2,500	1
12953	Ball	2,500	1
12954	Cylindrical Ball Nose	2,500	1
12955	14 Degree Angle	2,500	1
12956	Flame Rounded *	2,500	1
12957	1/2" Cylindrical	2,500	1

*Not Pictured

Rotary Rasps



12962 12963 12961 12959 12960

1/4" shank wood rasps are perfect for hard to reach areas. Used for material removal.

ITEM No.	SHAPE	RPM	PKG. QTY.
12959	3/8" Cylinder	2,500	1
12960	1/4" Cylinder	2,500	1
12961	Round Nose Cylindrical	2,500	1
12962	Ball	2,500	1
12963	14 Degree Taper	2,500	1

Multi-Purpose Rotary File Set



12950

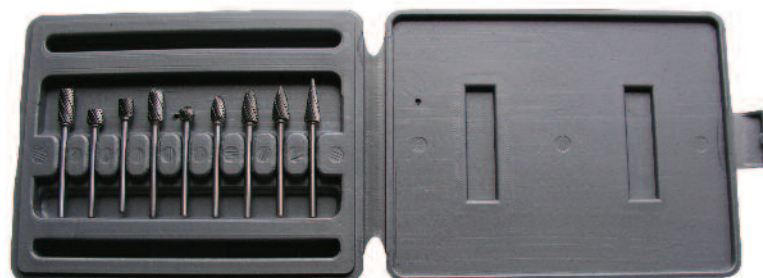
High quality steel set, includes 5 most popular shapes and sizes: Cylindrical, Round Tree, Ball, Cylindrical Ball Nose and 14 Degree Included Angle. Set includes a reusable plastic case.

Can be used in drill presses, lathes and electrically or air-operated hand or flexible shaft equipment.

ITEM No.	FILES	PKG. QTY
12950	5	1

Mini Carbide Burs

Part# BTM - 1/8" Shank 9 Piece Mini Bur Set



BTM

This 1/8" shank mini carbide bur kit comes with 9 of the most popular shapes to meet all your smaller cutting needs.

ITEM No.	IR#	SHAPE	DIA. HEAD	FLUTE LENGTH	CUT
BTM-1	SA51	Cylinder	1/4"	1/2"	Double
BTM-2	SB51	End Cut Cylinder	1/4"	3/16"	Double
BTM-3	SN51	Inverted Cone	1/4"	1/4"	Double
BTM-4	SC51	Round Nose Cylinder	1/4"	1/2"	Double
BTM-5	SD51	Ball	1/4"	3/16"	Double
BTM-6	SE51	Oval	1/4"	3/8"	Double
BTM-7	SF51	Tree Radius	1/4"	1/2"	Double
BTM-8	SG51	Tree Pointed	1/4"	1/2"	Double
BTM-9	SM51	Cone	1/4"	5/8"	Double

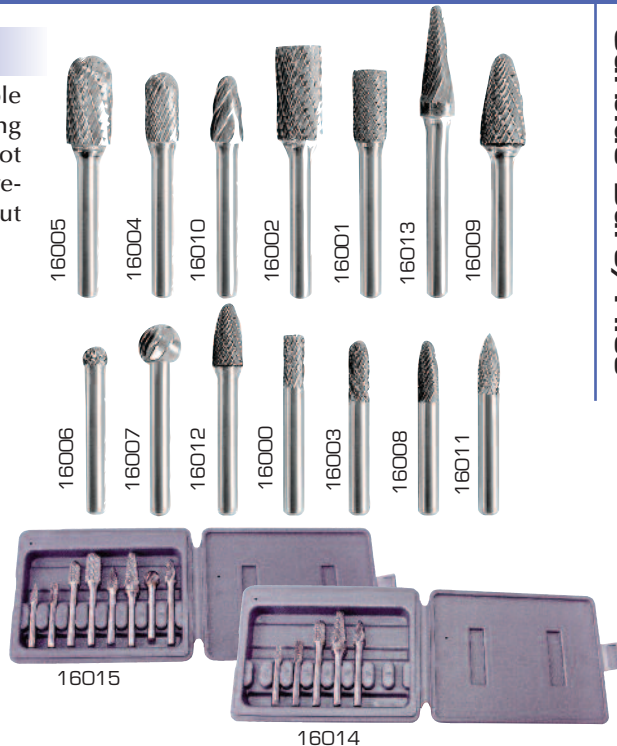


ABRASIVES

Solid Carbide Burs with 1/4" Shanks

Can be used to cut all types of steel, plastics, ferrous and machinable metals of all kinds. Use for deburring, removing metal and enlarging holes and are designed to be used with air tools and grinders. Do not put pressure on the burs for best results. Always use protective eye-wear when cutting with burs. All burs are double cut or aluminum cut as marked.

ITEM No.	DESCRIPTION	PKG. QTY.
16000	1/4" Cylinder - Double Cut/BT14 ***	1
16001	3/8" Cylinder - Double Cut/BT16	1
16002	1/2" Cylinder - Double Cut/BT17	1
16003	1/4" Ball Nose Cylinder- Double Cut/BT19	1
16004	3/8" Ball Nose Cylinder-Double Cut/BT20 */**	1
16013	3/8" Ball Nose Cone - Double Cut/26	1
16005	1/2" Ball Nose Cylinder-Double Cut/BT21 **	1
16006	5/16" Ball - Double Cut/BT31	1
16007	1/2" Ball - Aluminum Cut/BT33 **	1
16008	1/4" Tree Radius - Double Cut/BT50	1
16009	3/8" Tree Radius - Double Cut/BT22	1
16010	3/8" Tree Radius - Aluminum Cut/BT40 */**	1
16011	1/4" Tree Pointed - Double Cut/BT10 */**	1
16012	3/8" Tree Pointed - Double Cut/BT24 **	1
16022	1/2" Tree Pointed - Double Cut/BT27 */**	1
16014	5 Piece Bur Kit- see *	1
16015	8 Piece Bur Kit- see **	1

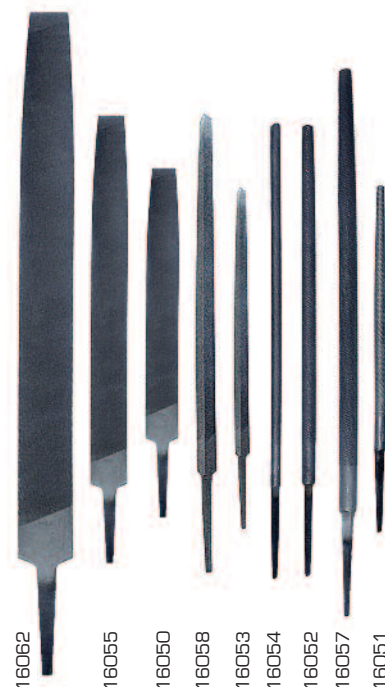


Carbide Burs/Files

Multiple Use General Purpose Files

Multi-purpose files can be used for many different applications. Consisting of the most useful sizes, these are display packaged for ease of retail sale.

ITEM No.	DESCRIPTION	PKG. QTY.
16050	6" Mill Bastard	1
16051	6" Half Round Bastard	1
16052	6" Round Bastard	1
16053	6" Slim Taper	1
16054	6" Extra Slim Taper	1
16055	8" Mill Bastard	1
16056	8" Half Round Bastard	1
16057	8" Round Bastard	1
16058	8" Slim Taper	1
16059	8" All Purpose File	1
16060	8" x 7/32" Round Chain Saw File	1
16061	8" x 3/16" Round Chain Saw File	1
16062	10" Mill Bastard	1
16063	12" Mill Bastard	1



Plastic Handle for File

Replacement plastic handle for files. Comes with adaptors for different shaped files.

ITEM No.	SIZE	PKG. QTY.
16064	6"-8"	1
16066	10"-12"	1



BRUSHES



Wire Brushes



Stainless Steel Wire Brush

ITEM No.	DESCRIPTION
14000	This compact style brush has a plastic 7 1/4" handle and is rustproof. Use for aggressive cleaning action (3 x 7 rows)
14001	This wooden handle brush has stainless steel bristles and a 7 3/4" handle. Used for aluminum welding clean-up (3 x 7 rows).

Compact Brass Scratch Brushes

Brass bristled brushes for use on non-ferrous materials. 7 1/4" (3 x 7 rows). Great for general cleaning.

ITEM No.	DESCRIPTION
14004(old #799)	Brass/Wooden Handle/Aggressive
14005	Brass/Plastic Handle/Gentle

Stainless and Brass Tinning Brushes

These brushes have tempered stainless bristles, with a 3/8" x 2 1/2" bristle area and a 8 3/4" handle (2 x 9 row). Great for general cleaning.

ITEM No.	DESCRIPTION
14002	Stainless
14003	Brass

Stainless & Brass Scratch Brushes

These brushes have tempered steel or brass bristles, with a 1/2" x 5" bristle area, and a 4 1/2" plastic handle. 10 1/4" overall length. Great for general cleaning.

ITEM No.	DESCRIPTION
14098	Red Handle/Steel
14099	Yellow Handle/Brass
14141	Green Handle/Stainless Steel
13999	NEW Plastic Handled Carbon Steel Scratch Brush

Long Handle Scratch Brushes

A 13 1/2" • 3 x 19/4 x 16 rows extremely heavy duty paint/rust removal brush with hundreds of strong bristles imbedded in wooden handles. Bristle Option.

ITEM No.	DESCRIPTION	ROWS
14040	Long Handled Bow Shape Carbon Steel	4 x 19 1/8"
14006	Long Handled Carbon(Old#792)	3 x 19
14007	Long Handled Carbon w/Scraper (795)	3 x 19
14008	Long Handled Brass	3 x 19
14009	Long Handled Stainless Steel(800)	3 x 19
14010	Shoe Handled Carbon Steel (797)	4 x 19
14011	Shoe Handled Brass	4 x 19
14012	Shoe Handled Stainless Steel	4 x 19

Welder Long Handle "V" Brush

The NEW "V" bristle shape of this 13 1/2" x 3 x 19/4 x 16 row brush makes it perfect for corners and other areas after welding. Extremely heavy duty paint/rust removal brush with hundreds of strong bristles.

ITEM No.	DESCRIPTION
17005	Wooden Handled "V" Brush- For Channel Cleaning and Welding Applications in tight corners.



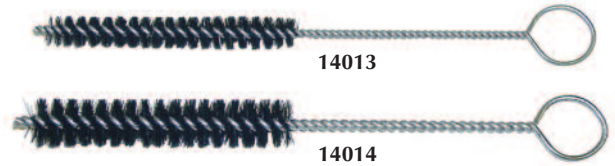
BRUSHES

Tube/Wire/Acid Brushes

Tube Bristle Brushes

Firm bristle brush is 8 1/2" long with 1/2" and 3/4" diameter x 3" nylon bristles. Used for cleaning carburetors, brake cylinders and bottles.

ITEM No.	DESCRIPTION
14013	1/2" diameter
14014	3/4" diameter



Spray Gun Cleaning Brushes

ITEM No.	DESCRIPTION
68	3 Piece Brush Assortment Includes:
68-1	External Cleaning Brushes
68-2	Fluid Tube Brush
68-3	Spray Gun Body Brush



Wire Solvent

ITEM No.	DESCRIPTION
14019	This brush is 5 1/2" long and 1 1/4" wide. Long, wire bristle brush is resistant to solvents where firm bristles are needed.
14021	Parts Cleaning Brush 10"
14022	Deluxe Cleaning Brush 11 1/2"



Wire Parts Cleaning Brush

A Wire bristled premium parts cleaning brush with aggressive cleaning action that helps to remove cleaning gasket material and varnish.

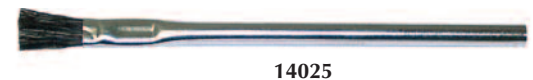
ITEM No.	DESCRIPTION
14023	9" Long x 1" Bristle diameter



Acid Brushes

Available in two sizes and used for the application of solder flux to work area.

ITEM No.	DESCRIPTION	Pk.
14025	3/8"	3 per Pk.
14026	1/2"	3 per Pk.
14069	2- 14025 and 1-14026 Kit	3 per Pk.
13997	3/8"	144 per Pk.
13998	1/4"	144 per Pk.



Plastic Handled Fitting Brushes

For cleaning copper fittings or plumbing joints prior to soldering. Also effective on corrosive battery cable terminals.

ITEM No.	DESCRIPTION
14017	Plastic Handle 1/2" x 4 3/4"
14018	Plastic Handle 3/4" x 4 3/4"



BRUSHES



14070



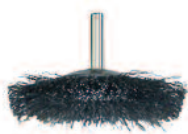
14073



14034



14027



14028



14095



14033



13995



13996

End Brushes

For use with a 1/4" diameter air or electric tool, these brushes can get into hard to reach locations. Use on rubber or plastic, rust, weld cleaning, scale removal etc.

ITEM No.	OLD#	SIZE	WIRE	RPM
708E		1"	Crimped (.020)	22,000
709E		3/4"	Crimped (.006)	22,000
719E		1"	Crimped (.014)	20,000
720E		1/2"	Crimped (.006)	22,000
13988	(STAINLESS STEEL)	1"	Knotted (.020)	20,000
14070	713E	3/4"	Crimped (.020)	20,000
14071	711E	1"	Crimped (.020)	20,000
14072	711F	3/4"	Knotted (.020)	20,000
14073		1 1/8"	Knotted (.020)	20,000
14074	714E (STAINLESS STEEL)	1 1/4"	Knotted (.020)	20,000
14024	711E (STAINLESS STEEL)	1"	Crimped (.020)	20,000

Circular Crimped Wheel

Choose between a 3" or 4" diameter with a 1/2" arbor .008" wire

ITEM No.	SIZE	RPM
14034	3"	4,500
14035	4"	4,500

Circular/Cup Wire Brushes 1/4" Shank

A general purpose brush used in electric drills. Brushes have many applications around the shop and home environments. Coarse brushes are .020" wire and fine brushes are .014".(unless noted)

ITEM No.	OLD#	SIZE	WIRE	RPM
712E	-	1"	(.012)	13,000
14027	715F	1 1/2"	Coarse	6,000
14028	720F	2"	Coarse	6,000
14029	725F	2 1/2"	Coarse	6,000
14030	730F	3"	Coarse	6,000
14031	730SF	3"	Fine	4,500
14032	740SF	4"	Fine	4,500
14095	750C	1 1/2"	Coarse/Cup	4,500
14096	721E	2 1/2"	Coarse/Cup	4,500
14097	722E	2 1/2"	Fine/Cup	4,500

Crimped Wire Tire Brushes

Heavy duty 3" diameter mandrel cup brush for rim/hub Cleaning. .016" Brass coated wire

ITEM No.	SIZE	RPM
14033	3"	10,000

Mini Knotted Wire Brushes

Mini knotted circular wire brush with 1/4" mandrel.

ITEM No.	SIZE	WIRE	RPM
13995	2"	.020	7,500
13996	3"	.020	12,500



BRUSHES

Crimped Wire/Knotted Cup Brushes

Crimped Wire Cup Brushes

For used in cleaning metal parts and hard surfaces in hard to reach places. Use with angle grinders-follow correct speed ratings

ITEM No.	OLD#	SIZE	WIRE	RPM
14075	735C	3" x 1/2" -13	.014	12,500
14076	730C	3" x 5/8-11NC	.014	12,500
14077	723C	3" x M10 x 1.25	.020	12,500
14078	725C	3" x M10 x 1.50	.014	12,500
14079	-	3" x M14" -2.0	.014	12,500
14080	740C	4" x 5/8-11NC	.014	9,000
14081	750C	5" x 5/8-11NC	.020	6,600
14082	760C	6" x 5/8-11NC	.020	6,500



14077

Single Row Knotted Cup Brushes

Available with standard or metric arbor sizes in various diameters. Use for general cleaning, weld and removing paint and rust. Use with angle grinders.

ITEM No.	OLD#	SIZE	WIRE	RPM
14041	723K	3" x 1/2" -13	.020	12,500
14042	730K	3" x 5/8-11NC	.014	12,500
14043	722K	3" x 5/8-11NC	.020	12,500
14044	724K	3" x M10 x 1.25	.020	12,500
14045	725K	3" x M10 x 1.50	.014	12,500
14046	-	3" x M14" -2.0	.014	12,500
14047W	740K	4" x 5/8-11NC	.020	9,000
13989	STAINLESS STEEL	4" x 5/8-11NC	.020	9,000
14048	760K	6" x 5/8-11NC	.020	6,500
13990	STAINLESS STEEL	6" x 5/8-11NC	.020	6,500



14043

Double Row Knotted Wire Cup Brushes

Extremely durable and aggressive. Use with an appropriate size angle grinder.

ITEM No.	SIZE	WIRE	RPM
14049B	4" x 5/8-11NC	.014	9,000
14050	5" x 5/8-11NC	.014	7,000
14051	6" x 5/8-11NC	.014	6,500



14049B

Crimped Wire Brushes

Choose from 4" to 10" diameters with .014" wire size.

ITEM No.	OLD	SIZE	ARBOR	RPM
14052	-	4"	5/8-11NC	12,500
14053	-	4"	M10-1.25	12,500
14054	-	4"	M10-1.50	12,500
14055	-	4"	3/8" - 1/2"	12,500
14056	-	4"	M14-2.0	12,500
14057	-	6"	1/2" - 5/8"	6,000
14058	762S	6" Narrow width	1/2" - 5/8"	6,000
767S	767S	6" Medium width	1/2" - 5/8"	6,000
777S	777S	7"	1/2" - 5/8"	6,000
14059	780S	8"	1/2" - 5/8"	4,500
14140	-	10"	1 1/4"	3,600



14058

BRUSHES



Wire Wheel Brushes



14064

Twist Knotted Wire Wheel Brushes

These brushes are available with standard or metric center thread sizes with a width of 5/16" and .020 wire. Use on hard materials for general purpose cleaning and polishing.

ITEM No.	OLD	SIZE	ARBOR	WIRE	RPM
14064	743S	4"	5/8-11NC	.020	20,000
14065	STAINLESS STEEL	4"	5/8-11NC	.020	20,000
13980	STEEL	4 1/2"	5/8-11NC	.020	12,500
13981	STAINLESS STEEL	4 1/2"	5/8-11NC	.020	12,500
14130	STEEL	5"	5/8-11NC	.020	12,500
14134	STAINLESS STEEL	5"	5/8-11NC	.020	12,500
14066	STEEL	6"	5/8-11NC	.020	9,000
14067	STAINLESS STEEL	6"	5/8-11NC	.020	9,000
13982	STEEL	7"	5/8-11NC	.020	9,000
13983	STAINLESS STEEL	7"	5/8-11NC	.020	9,000

Flared Knotted Wire Wheel Brushes With Adaptors

These brushes are available with standard or metric center thread sizes with a width of 5/16" and .014 wire. Use on hard materials for general purpose cleaning and polishing.

ITEM No.	OLD	SIZE	ARBOR	WIRE	RPM
14060	748S	4"	1/2" -13	.014	20,000
14061	-	4"	M10-1.25	.014	20,000
14062	-	4"	M10-1.50	.014	20,000
14063	-	4"	M14-2.0	.014	20,000
14068	-	6"	5/8" - 1/2"	.020	9,000
760S	760S	6" Full Cable	1/2", 5/8"	.014	6,000
787S	787S	8"	1/2", 5/8"	.014	9,000



14068

Stringer Bead Twist Wire Wheel Brushes

These brushes are available with standard or metric arbor sizes and .020" heavy duty wire (unless otherwise noted). Used for aggressive cleaning.

ITEM No.	OLD#	SIZE	ARBOR	WIRE	RPM
13984	STEEL	4 1/2"	5/8-11NC	.020	12,500
13985	STAINLESS STEEL	4 1/2"	5/8-11NC	.020	12,500
13986	STEEL	7"	5/8-11NC	.020	9,000
13987	STAINLESS STEEL	7"	5/8-11NC	.020	9,000
14083	-	4"	1/2" - 13	.020	20,000
14084	744S	4"	5/8-11NC	.014	20,000
14085	STAINLESS STEEL	4"	5/8-11NC	.020	20,000
14086	STEEL	4"	M10-1.25	.020	20,000
14087	STEEL	4"	M10-1.50	.020	20,000
14088	STEEL	4"	M14-2.0	.020	20,000
14089	STEEL	5"	5/8-11NC	.020	12,000
14138	STAINLESS STEEL	5"	5/8-11NC	.020	12,500
14128	745S	6"	5/8-11NC	.020	9,000
14139	STAINLESS STEEL	6"	5/8-11NC	.020	9,000



14083



BRUSHES

Cable/Lug Cleaning Brush

This brush will clean an I.D. of 1/2", 5/8" and 7/8" fittings. It will also do an O.D. of 1/2", 5/8" and 7/8" tubing. Also great for cleaning rust off battery terminals. Use it to ream and debur the ID of tubing in plumbing and building applications.

ITEM No.
14155

SIZE
4"



14155

Arbor Adaptors

These adaptors are available with various arbor sizes and a 2" outside diameter. Plain hole centers. Use for mounting wire wheels to bench grinders.

ITEM No.

SIZE

14090

1/2"

14091

5/8"

14092

3/4"



14090

Adaptor Kit

This adaptor kit will start with a 2" hole on your wire wheel and adapt it from 1/2"-5/8"-3/4"-1". Kit includes center telescoping adaptors and 2 arbor rings.

ITEM No.

DESCRIPTION

14136

For 3/4" thick wheels M10 - 1.25



14136

Adaptor Nuts

Nuts adapt 5/8-11 arbor brushes to fit M10-1.25 and 1.50 high speed grinder spindles.

ITEM No.

OD SIZE

OD SIZE

14093

5/8-11 NC

M10 - 1.25

14094

5/8-11 NC

M10 - 1.50

14129

5/8-11 NC

3/8-24 NF



14093

INDEX



Shark#	Page#	Shark#	Page#	Shark#	Page#	Shark#	Page#	Shark#	Page#	Shark#	Page#	Shark#	Page#	Shark#	Page#	Shark#	Page#
BTM	70	11042	38	11115	41	12109	46	12274	54	12459	30/56	12560	34	12699	59	12770	61
BTM-1	70	11043	38	11116	41	12110	47	12275	54	12460	30/56	12561	34	12700	57	12771	61
BTM-2	70	11044	38	11117	41	12111	47	12276	55	12462	53	12562	34	12701	57	12772	61
BTM-3	70	11045	38	11118	41	12112	47	12277	55	12463	53	12563	34	12702	57	12773	61
BTM-4	70	11046	38	11119	41	12113	46	12278	54	12466	31	12564	34	12703	57	12774	61
BTM-5	70	11047	38	11120	41	12201	50	12279	54	12467	31	12565	34	12704	57	12775	61
BTM-6	70	11048	38	11121	41	12202	50	12280	55	12468	31	12566	34	12705	57	12776	61
BTM-7	70	11049	38	11122	40	12205	50	12281	55	12469	31	12567	34	12706	57	12777	61
BTM-8	70	11050	38	11123	40	12206	50	12283	54	12470	31	12568	34	12707	57	12778	61
BTM-9	70	11051	38	11124	40	12207	48	12284	54	12471	31	12569	34	12708	57	12779	61
68	73	11052	38	11125	40	12208	48	12285	55	12490	30	12570	30/34	12709	57	12780	61
68-1	73	11053	38	11127	40	12209	48	12286	55	12491	30	12571	34	12710	57	12781	61
68-2	73	11054	38	11128	41	12210	48	12287	54	12500	32	12572	30/34	12711	57	12783	62
68-3	73	11055	38	11131	38	12211	47	12288	54	12501	32	12573	34	12712	57	12784	62
708E	74	11056	38	11132	38	12212	47	12289	54	12502	32	12574	30/35	12713	57	12785	62
709E	74	11057	38	12000	42	12213	47	12290	54	12503	32	12575	35	12714	57	12786	62
712E	74	11058	38	12001	42	12214	47	12291	55	12504	32	12576	35	12715	57	12787	62
719E	74	11059	38	12002	42	12215	47	12292	55	12505	32	12577	30/35	12716	57	12788	62
720E	74	11060	38	12003	42	12216	47	12293	55	12506	32	12578	35	12717	57	12789	62
760S	76	11061	38	12004	42	12217	49	12294	55	12507	32	12579	35	12718	57	12790	62
767S	75	11062	38	12005	42	12218	49	12295	44	12508	32	12580	35	12719	57	12791	62
777S	75	11063	38	12006	42	12219	49	12296	44	12509	32	12581	35	12720	57	12792	62
787S	76	11064	38	12007	42	12220	49	12298	45	12510	32	12582	35	12721	57	12793	62
6202	65	11065	38	12008	42	12221	49	12300	52	12511	32	12583	35	12722	57	12794	62
6205	65	11066	38	12009	42	12222	49	12301	52	12512	32	12584	35	12723	57	12795	62
6302	65	11067	38	12010	42	12223	49	12302	52	12513	32	12585	35	12724	57	12796	62
6305	65	11068	38	12011	42	12224	51	12303	52	12514	32	12586	35	12725	57	12797	62
7000	67	11069	38	12012	42	12225	51	12304	52	12515	32	12587	35	12726	57	12798	62
10999	51	11070	38	12013	42	12226	45	12305	52	12516	32	12588	35	12727	57	12799	62
11000	37	11071	38	12014	42	12227	45	12306	52	12517	32	12589	35	12728	57	12800	62
11001	37	11072	38	12015	43	12230	45	12308	52	12518	32	12590	35	12729	57	12801	62
11002	37	11073	38	12016	43	12231	45	12309	52	12519	32	12591	35	12730	59	12802	62
11003	37	11074	38	12017	43	12232	45	12310	52	12520	32	12592	35	12731	59	12803	62
11004	37	11075	38	12018	43	12233	45	12311	52	12521	32	12593	35	12732	59	12804	62
11005	37	11076	38	12019	43	12234	45	12312	52	12522	32	12594	35	12733	59	12805	66
11006	37	11077	38	12020	43	12235	51	12313	52	12523	32	12595	35	12734	59	12806	66
11007	37	11078	38	12021	42	12236	51	12314	52	12524	32	12596	35	12735	59	12807	66
11008	37	11079	38	12024	43	12237	30/48	12315	52	12525	32	12597	35	12736	59	12808	66
11009	37	11080	38	12025	43	12238	48	12401	30	12527	33	12598	35	12737	59	12809	66
11010	37	11081	38	12026	43	12239	48	12402	30	12528	33	12599	30/35	12738	59	12810	66
11011	37	11082	38	12027	43	12240	48	12403	30	12529	33	12600	35	12739	59	12811	66
11012	37	11083	38	12028	43	12241	48	12411	31	12530	33	12601	30/35	12740	59	12812	66
11013	37	11085	39	12029	43	12242	30/48	12412	52	12531	33	12602	35	12741	59	12813	66
11014	37	11086	39	12031	43	12243	48	12413	52	12532	33	12603	30/35	12742	60	12814	66
11015	37	11087	39	12032	43	12244	48	12414	52	12533	33	12604	30/35	12743	60	12815	66
11016	37	11088	39	12033	43	12245	50	12415	52	12534	33	12605	35	12744	60	12816	66
11017	37	11089	39	12034	43	12246	51	12416	52	12535	33	12606	33	12745	60	12817	66
11018	37	11090	39	12035	43	12247	52	12418	52	12536	33	12607	33	12746	60	12818	66
11019	37	11091	39	12036	43	12248	44	12419	52	12537	33	12608	33	12747	60	12819	66
11020	37	11092	39	12037	43	12250	50	12421	52	12538	33	12609	33	12748	60	12820	66
11021	37	11093	39	12038	43	12251	50	12422	55	12539	33	12610	33	12749	60	12821	66
11022	37	11094	39	12040	43	12252	50	12423	55	12540	33	12611	33	12750	60	12822	66
11023	37	11095	39	12041	43	12253	44	12424	55	12541	33	12670	30	12751	60	12823	66
11024	37	11096	39	12042	42	12254	44	12425	55	12542	34	12671	30	12752	60	12824	66
11025	37	11097	40	12043	42	12255	29	12426	55	12543	34	12672	30	12753	60	12825	66
11026	37	11098	40	12050	41	12256	51	12427	55	12544	34	12673	49	12754	60	12826	66
11027	37	11099	40	12051	42	12257	51	12428	55	12545	34	12674	49	12755	60	12827	66
11028	37	11100	41	12052	42	12258	51	12429	55	12546	34	12676	49	12756	60	12828	66
11029	37	11101	40	12061	42	12259	29	12430	55	12547	34	12675	49	12757	57	12829	66
11030	37	11102	40	12062	42	12260	54	12440	55	12548	34	12677	49	12758	57	12830	66
11031	37	11103	41	12063	42	12261	53	12441	55	12549	34	12678	49	12759	61	12831	66
11032	37	11104	41	12064	42	12263	53	12442	56	12550	34	12679	49	12760	61	12832	66
11033	37	11105	41	12100	46	12264	30/53	12443	30/56	12551	34	12690	62	12761	61	12833	66
11034	37	11106	41	12101	46	12265	30/53	12444	30/56	12552	34	12691	62	12762	61	12834	66
11035	37	11107	40	12102	46	12266	53	12445	56	12553	34	12692	62	12763	60	12835	66
11036	37	11108	40	12103	46	12268	53	12446	56	12554	34	12693	59	12764	60	12836	66
11037	37	11109	40	12104	45	12269	53	12447	56	12555	30/34	12694	59	12765	61	12837	66
11038	37	11110	40	12105	46	12270	53	12448	56	12556	34	12695	59	12766	61	12838	66
11039	38	11112	41	12106	46	12271	53	12449	56	12557	34	12696	59	12767	61	12839	66
11040	38	11113	41	12107	46	12272	54	12454	56	12558	34	12697	59	12768	61	12840	63
11041	38	11114	41	12108	46	12273	54	12455	56	12559	34	12698	59	12769	61	12841	63



INDEX

Shark#	Page#	Shark#	Page#	Shark#	Page#	Shark#	Page#	Shark#	Page#	Shark#	Page#	Shark#	Page#	Shark#	Page#	Shark#	Page#
12842	63	12941	36	13029	58	13133	67	14030	74	14109	15	14303	21	14453	29	16101	53
12843	63	12942	36	13030	58	13134	68	14031	74	14112	15	14305	22/30	14454	29	16102	53
12844	63	12943	36	13031	58	13135	68	14032	74	14116	15	14306	22	14455	29	16103	53
12845	63	12944	36	13032	58	13136	68	14033	74	14117	19	14307	22	14456	29	16202	65
12846	63	12950	70	13033	58	13137	68	14034	74	14118	19	14308	22	14457	29	16203	65
12847	63	12951	70	13034	58	13138	68	14035	74	14119	19	14309	22	14458	29	17005	72
12848	36	12952	70	13035	58	13139	68	14040	72	14120	20	14310	18	14459	29	17010	4
12849	36	12953	70	13036	58	13140	68	14041	75	14128	76	14311	18	14460	29	17011	5
12850	36	12954	70	13037	58	13141	68	14042	75	14129	77	14312	18	14461	29	17012	6
12851	36	12955	70	13038	58	13148	68	14043	75	14130	76	14313	18	14463	24	17014	7
12854	36	12956	70	13039	58	13150	57	14044	75	14134	76	14314	19	14466	29	17015	9
12855	36	12957	70	13040	58	13151	57	14045	75	14135	16	14315	18	14467	29	17020	4
12856	36	12959	70	13041	58	13152	57	14046	75	14136	77	14316	18	14468	29	17021	5
12857	36	12960	70	13042	58	13153	57	14047W	75	14137	16	14317	18	14480	31	17022	6
12858	36	12961	70	13043	58	13154	57	14048	75	14138	76	14318	18	14481	31	17023	7
12859	36	12962	70	13044	58	13155	57	14049B	75	14139	76	14319	18	14482	31	17024	8
12866	36	12963	70	13045	58	13201	66	14050	75	14140	75	14320	18	14483	9	17025	8
12867	36	12964	36	13046	58	13202	66	14051	75	14141	72	14321	23	14500	28	17030	10
12868	36	12965	36	13047	58	13203	66	14052	75	14142	20	14322	23	14501	28	17031	10
12870	36	12966	36	13048	58	13204	66	14053	75	14155	77	14323	23	14502	28	17032	10
12871	36	12967	36	13049	58	13205	66	14054	75	14200	17	14324	23	14503	28	17033	10
12872	36	12968	36	13050	58	13206	66	14055	75	14201	17	14327	23	14504	28	17034	10
12873	36	12969	36	13051	58	13207	66	14056	75	14202	17	14328	23	14505	28	17035	10
12874	36	12976	36	13052	58	13209	66	14057	75	14203	17	14329	21	14506	28	17036	10
12875	36	12977	36	13053	58	13210	66	14058	75	14204	17	14330	22	14507	28	17037	10
12876	36	12978	36	13054	58	13211	66	14059	75	14205	17	14331	18	14508	28	17038	10
12877	36	12979	36	13055	57	13212	66	14060	76	14206	17	14332	18	14509	28	45736	68
12878	36	12980	36	13056	57	13213	59	14061	76	14207	17	14333	19	14510	28	45737	68
12879	36	12981	36	13057	57	13980	76	14062	76	14208	17	14334	19	14511	28	45738	68
12880	36	12982	36	13062	65	13981	76	14063	76	14209	17	14335	19	14520	28	45739	68
12900	68	12983	36	13063	60	13982	76	14064	76	14210	17	14338	23	14521	28	45740	68
12901	68	12984	36	13064	60	13983	76	14065	76	14211	17	14339	23	14522	28	45741	68
12902	68	12985	36	13065	57	13984	76	14066	76	14212	17	14340	16	14523	28	45742	68
12903	68	12986	64	13066	57	13985	76	14067	76	14213	12/17	14341	16	14524	28	45836	68
12904	68	12987	64	13067	57	13986	76	14068	76	14214	17	14342	23	14525	26	45837	68
12905	68	12988	64	13068	57	13987	76	14069	73	14215	17	14343	23	14866	29	45838	68
12906	68	12989	64	13069	57	13988	74	14070	74	14216	17	14344	23	14868	29	45839	68
12907	68	12990	64	13070	57	13989	75	14071	74	14217	17	14400	27	16000	71	45840	68
12908	68	12991	64	13100	67	13990	75	14072	74	14218	17	14401	26	16001	71	45841	68
12909	68	12992	64	13101	67	13995	74	14073	74	14219	17	14402	26	16002	71	45842	68
12910	68	12993	64	13102	67	13996	74	14074	74	14220	17	14403	26	16003	71	45843	68
12911	68	12994	64	13103	67	13997	73	14075	75	14221	17	14404	27	16004	71	73752	69
12912	67	12995	64	13104	67	13998	73	14076	75	14222	17	14414	27	16005	71	73753	69
12913	67	12996	64	13105	67	13999	72	14077	75	14223	17	14415	27	16006	71	73754	69
12914	67	12997	64	13106	67	14000	72	14078	75	14224	17	14416	24	16007	71	73755	69
12915	67	13000	65	13107	67	14001	72	14079	75	14225	17	14417	24	16008	71	73757	69
12916	67	13001	65	13108	67	14002	72	14080	75	14226	17	14418	24	16009	71	73758	69
12917	67	13002	65	13109	67	14003	72	14081	75	14252	13	14419	24	16010	71	73759	69
12918	67	13003	65	13110	67	14004	72	14082	75	14253	13	14421	24	16011	71	73760	69
12919	67	13004	65	13111	67	14005	72	14083	76	14254	13	14422	24	16012	71	73762	69
12920	67	13005	65	13112	67	14006	72	14084	76	14255	13	14423	24	16013	71	73763	69
12921	67	13006	65	13113	67	14007	72	14085	76	14256	13	14424	24	16014	71	73764	69
12922	67	13007	65	13114	67	14008	72	14086	76	14257	13	14425	24	16015	71	73765	69
12923	67	13008	65	13115	67	14009	72	14087	76	14262	12	14426	25	16022	71	73767	69
12924	64	13009	65	13116	67	14010	72	14088	76	14263	12	14427	25	16050	71	73768	69
12925	64	13010	65	13117	67	14011	72	14089	76	14264	12	14428	25	16051	71	73769	69
12926	64	13011	65	13118	67	14012	72	14090	77	14265	12	14432	25	16052	71	73770	69
12927	64	13012	63	13119	67	14013	73	14091	77	14266	12	14433	25	16053	71	82751	69
12928	64	13013	63	13120	67	14014	73	14092	77	14267	12	14434	25	16054	71	82752	69
12929	64	13014	63	13121	67	14017	73	14093	77	14268	12	14435	25	16055	71	82753	69
12930	64	13015	64	13122	67	14018	73	14094	77	14269	13	14438	25	16056	71	82754	69
12931	64	13016	64	13123	67	14019	73	14095	74	14270	13	14439	25	16057	71	83751	69
12932	63	13017	64	13124	67	14020	47/73	14096	74	14272	14/15	14440	25	16058	71	83752	69
12933	63	13018	65	13125	67	14021	73	14097	74	14273	14	14441	25	16059	71	83753	69
12934	63	13019	65	13126	67	14022	73	14098	72	14274	16	14442	25	16060	71	83754	69
12935	59	13020	65	13127	67	14023	73	14099	72	14275	16	14443	29	16061	71	621TB	65
12936	62	13021	58	13128	67	14025	73	14101	15	14276	20	14444	45	16062	71	623TB	65
12937	36	13022	58	13129	67	14026	73	14103	15	14278	20	14448	25	16063	71	631TB	65
12938	36	13023	58	13130	67	14027	74	14105	15	14300	21	14450	29	16064	71	633TB	65
12939	36	13024	58	13131	67	14028	74	14106	15	14301	21	14451	29	16066	71	641TB	65
12940	36	13028	58	13132	67	14029	74	14107	15	14302	21	14452	29	16100	53	643TB	65

FIREPOWER/FORNEY/SHARK CROSSOVER



Firepower	Shark	Firepower	Shark	Firepower	Shark	Firepower	Shark	Firepower	Shark	Firepower	Shark	Firepower	Shark	Forney	Shark
0323-0360	12599	1423-0019	14302	1423-1452	14017	1423-2205	12798	1423-4128	14400	1440-0216	12003	CSSC121	12538	41310	11021
0323-0361	12600	1423-0020	14300	1423-1459	14019	1423-2206	12799	1423-4131	14506	1440-0217	12004	CSSC122	12539	41350	11022
0323-0362	12601	1423-0026	12237	1423-2100	14027	1423-2207	12801	1423-4132	14509	1440-0220	12005	FORNEY/SHARK			
0323-0363	12602	1423-0032	12238	1423-2101	14028	1423-2208	12802	1423-4133	14403	1440-0221	12006				
0324-0112	12605	1423-0050	12239	1423-2102	14030	1423-2209	12803	1423-4134	14452	1440-0222	12007	1687	12403	42050	11042
0324-0150	12569	1423-0051	14402	1423-2103	14031	1423-2210	12804	1423-4135	14453	1440-0230	12008	1702	12404	42101	11044
0324-0151	12570	1423-0052*	12240	1423-2104	14070	1423-2213	12694	1423-4136	14454	1440-0231	12021	1705	12405	42105	11045
0324-0152	12571	1423-0081	14002	1423-2105	14072	1423-2220	12906	1423-4137	14455	1440-0235	12009	1720	12407	42110	11046
0324-1053	12572	1423-0082	14009	1423-2106	14025	1423-2221	12907	1423-4138	14456	1440-0236	12010	1753	12410	42150	11047
0324-1054	12573	1423-0083	14010	1423-2107	N/A	1423-2224	12957	1423-4145	14202	1440-0240	12011	1754	12411	42210	11051
0330-0002	12557	1423-0084	14000	1423-2108	14097	1423-2225	12952	1423-4146	14112	1440-0241	12012	12761	12834	42205	11050
0330-0007	12558	1423-0085	12112	1423-2109	14076	1423-2226	12953	1423-4157	14500	1440-0245	12013	36062	12015	42210	11051
0330-0620	12554	1423-0086	12111	1423-2110	14042	1423-2227	12954	1423-4158	14404	1440-0296	12254	37025	12039	42250	11052
0330-0621	12555	1423-0087	14006	1423-2111	14083	1423-2228	12955	1423-4173	14303	1440-0297	12253	37028	12254	42276	12004
0330-0622	12556	1423-0088	12213	1423-2112	14128	1423-2229	12950	1423-4175	14319	1440-0402	11125	37030	12254	42281*	12007
0330-0623	12557	1423-0089	12216	1423-2113	14064	1423-2232	12750	1424-0013	12422	1440-0406	11028	37031	12253	42285	12001
0330-0624	12558	1423-0092	14020	1423-2114	14081	1423-2234	14074	1424-0014	12423	1440-0411	11093	37101	12041	42286	12003
0331-0016	12580	1423-0093	14026	1423-2115	14047	1423-2237	12726	1424-0015	12424	1440-0419	11096	37250	12040	42287*	12006
0331-0017	12581	1423-0094*	12212	1423-2116	14048	1423-2238	12728	1424-0017	12425	1440-0420	11098	38060	12017	42290	12000
0331-0179	12576	1423-0095*	12215	1423-2117	14071	1423-2271	12787	1424-0019	12426	1440-0423*	11090	38061	12016	42291	12002
0331-0180	12577	1423-0096	12211	1423-2118	14073	1423-2272	12788	1424-0292	12428	1440-0424	11090	38062	12015	42292	12005
0331-0181	12578	1423-0097	12214	1423-2119	14066	1423-2274	12790	1424-0293	12429	1440-0425	11088	38070	12029	42293	12011
0331-0182	12579	1423-1100	14135	1423-2120	14068	1423-2275	12791	1424-0294	12430	1440-0427*	11101	38071	12028	42294	12012
0331-0183	12580	1423-1101	12038	1423-2121	14058	1423-2310	12772	1440-0080	11094	1440-0428*	11102	38072	12027	42298	12013
0331-0184	12581	1423-1102	12025	1423-2122	14057	1423-2311	12771	1440-0081	11095	1440-0429	11107	38073	12026	42300	12008
0333-0305	12557	1423-1103	12033	1423-2123	14059	1423-2312	12773	1440-0083	11091	1440-0430	11108	38101	12025	42301	12021
0333-0402	12580	1423-1105	12032	1423-2124	14093	1423-2327	14052	1440-0093	11092	1440-0431	11107	38102	12023	42302	12009
0333-0408	12564	1423-1107	12030	1423-2125	14094	1423-3135	12928	1440-0095	11019	1440-0432*	11104	38103	12024	42303	12010
0333-0409	12565	1423-1108	12024	1423-2126	14043	1423-3136	12909	1440-0096	11020	1440-0433*	11105	38106	12030	42330	11104
0333-0550	12585	1423-1109	12023	1423-2127	14084	1423-3137	12910	1440-0097	11021	1440-0434	11097	38107	12031	42335	11105
0333-0551	12587	1423-1110	12026	1423-2136	12929	1423-3142*	12702	1440-0098	11022	1440-0441	11013	38108	12035	42340	11106
0333-0552	12588	1423-1112	12027	1423-2137	12930	1423-3143*	12704	1440-0105	11014	1440-0442*	11104	38109	11034	42397	11097
0333-0553	12589	1423-1113	12028	1423-2138	12931	1423-3144*	12708	1440-0106	11015	1440-0443	11086	38115	11036	43096	11096
0333-0560	12599	1423-1115	12015	1423-2140	13006	1423-3145*	12712	1440-0107	11016	1440-0445*	12012	38125	12038	43097	11094
0333-0563	12602	1423-1116	12016	1423-2141	13007	1423-3146*	12714	1440-0108	11017	1440-0447	12054	38140	14025	43400	11087
0333-561	12600	1423-1117	12017	1423-2142	13008	1423-3147*	12716	1440-0115	11009	1440-0449	11085	40301	11024	43401	11085
0381-0740	12490	1423-1205	12108	1423-2143	13013	1423-3148*	12722	1440-0116	11010	1441-0004	14105	40305	11025	44556	11117
0381-0744	12496	1423-1206	12224	1423-2151	12921	1423-3149*	12700	1440-0117	11011	1441-0010	14335	40350	11027	44557	11115
0382-0136	12497	1423-1207	12235	1423-2152	12922	1423-3150*	12710	1440-0118	11012	1441-0015	14317	40401	11029	44559	11120
0382-0143	12491	1423-1212	12236	1423-2153	12923	1423-3151*	12731	1440-0124	11034	1441-0023	14101	40405	11030	44560	11118
0384-0240	12402	1423-1213	12225	1423-2154	12918	1423-3152*	12732	1440-0125	11035	1441-0037	14103	40410	11031	44564	11119
0384-0250	12403	1423-1216*	12230	1423-2155	12919	1423-3153*	12734	1440-0126	11036	1441-0038	14109	40450	11032	45400	11090
0384-0656	12400	1423-1217	12232	1423-2156	12920	1423-3154	12702	1440-0127	11037	1441-0042	14119	40501	11034	45401	11088
0384-0990	12410	1423-1219*	12232	1423-2157	13110	1423-3155	12704	1440-0134	11029	1441-0047	14203	40505	11035	45405	11089
0387-0134	12554	1423-1220*	12233	1423-2158	13111	1423-3156*	12712	1440-0135	11030	1441-0048	14206	40510	11036	45464	11093
0387-0135	12555	1423-1300	12284	1423-2159	12917	1423-3157*	12716	1440-0136	11031	1441-0049	14213	40550	11037	45465	11091
0387-0136	12556	1423-1304*	12288	1423-2160	12912	1423-3158	14080	1440-0137	11032	1441-0050	14216	40680	11068	45466	11092
0387-0144	12576	1423-1305*	12287	1423-2161	12913	1423-3159	14137	1440-0145	11024	1441-0059	14115	40681	11069	45902	11109
0387-0145	12577	1423-1310	12281	1423-2162	12914	1423-3161	14136	1440-0146	11025	1441-3408	14327	40683	11071	46002	11110
0387-0146	12578	1423-1311	12280	1423-2164	12820	1423-3162	45836	1440-0147	11026	1443-0002*	12300	40684	11073	46111	11125
0387-0147	12579	1423-1314	12273	1423-2165	12821	1423-3163	45838	1440-0148	11027	1443-0003*	12303	40685	11074	47305	11102
0387-0172	12559	1423-1315	12272	1423-2166	12822	1423-3164	45840	1440-0151	11050	1443-0004*	12309	40686	11075	48305	11101
0387-0173	12560	1423-1318	12276	1423-2167	12823	1423-3165	45841	1440-0152	11051	1443-0005*	12315	40687	11076	48495	11107
0387-0182	12585	1423-1319	12277	1423-2170	12833	1423-3166	45842	1440-0155	11118	1443-0015	12100	40688	11078	48504	11108
0387-0184	12587	1423-1320	12288	1423-2171	12834	1423-3167	45843	1440-0156	11119	1443-0016	12101	40689	11079	48571	11100
0387-0185	12588	1423-1321	12287	1423-2172	12835	1423-3168	45844	1440-0165	11115	1443-0026	12106	40690	11080	52002	12231
0387-0487	12242	1423-1345*	12274	1423-2173	12836	1423-3169	45845	1440-0181	11065	1443-0027	12107	40691	11081	52004	12230
0387-1227	12501	1423-1346*	12275	1423-2174	12837	1423-3171	12925	1440-0182	11066	1443-0035	12226	40701	11054	52010	12233
0387-1228	12532	1423-1402	14021	1423-2177	12702	1423-3177	12959	1440-0183	11067	1444-0025	12976	40705	11055	53001	12232
0387-1229	12533	1423-1404	12255	1423-2180	12708	1423-3178	12961	1440-0185	11059	1444-0026	12977	40750	11057	54300	12108
0387-1233	12538	1423-1408	12243	1423-2185	12935	1423-3180	12960	1440-0186	11060	1444-0027	12978	40801	11059	54400	12109
0387-1234	12539	1423-1409	12205	1423-2186	12731	1423-3181*	12700	1440-0187	11061	1444-0028	12979	40805	11060	54410	12106
0387-1236	12543	1423-1415	12210	1423-2187	12732	1423-3182*	12710	1440-0188	11062	1444-0029	12980	40810	11061	54510	12107
0387-1237	12544	1423-1416	12223	1423-2188	12744	1423-3184	12722	1440-0195	11054	1444-0050	12855	40850	11062	54722	12104
0387-1238	12545	1423-1418	12218	1423-218											



FORNEY/R&B/SHARK CROSSOVER

Forney	Shark	Forney	Shark	Forney	Shark	Forney	Shark	Forney	Shark	Forney	Shark	Forney	Shark	R&B	Shark	R&B	Shark	R&B	Shark
55660	14100	60050	12787	70509	14023	71806	12927	72317	12724	86126	12272	87836	12573	07150	11034	07278	12010	07585*	12311
55663	14101	60051	12788	70511	14007	71818	12750	72322	13205	86127	12274	87850	12575	07151	11035	07281	12011	07586*	12312
55664	14102	60052	12789	70518	14008	71819	12751	72323	13206	86128	12276	87851	12576	07152	11036	07282	12012	07587*	12313
55666	14118	60053	12790	70519	14011	71820*	12731	72325	14050	86129	12279	87852	12577	07153	11037	07286	12013	07588*	12314
55671	14103	60054	12791	70520	14012	71821*	12732	72327	14049	86130	12278	87853	12578	07154	11038	07287	12014	07589*	12315
55672	14109	60055	12792	70521	14009	71822	12734	72328	14051	86131	12280	87854	12579	07160	11039	07296	12034	07590*	12316
55672	14112	60090	12300	70525	14043	71823	12736	72329	14071	86134	12267	87855	12580	07161	11040	07296	12035	07600	12224
55676	14119	60091	12301	70529	14085	71824	12753	72330	14073	86135	12273	87856	12558	07162	11041	07298	12031	07601	12235
55686	14105	60092	12302	70533	14065	71826	12759	72331	14066	86136	12275	87856	12581	07163	11042	07299	12030	07602	12225
55692	14124	60093	12303	70537	14074	71827	12738	72332	14068	86137*	12277	87900	12554	07164	11043	07300	12022	07603	12236
55816	14466	60094	12304	70541	14067	71830	12755	72335	14057	86138	12281	87901	12553	07165	11044	07301	12023	07610	12250
55817	N/A	60095	12305	70550	14093	71833	12739	72336	14058	86139	12244	87902	12554	07166	11045	07302	12025	07612	12252
55818	N/A	60096	12306	70551	14094	71834	12761	72338	14059	86140	12243	87903	12555	07167	11046	07306	12026	07616	12248
55854	14461	60097	12307	70601	12112	71835	12752	72341	12726	86141	16100	87904	12556	07168	11047	07307	12027	07701	12937
55905	14416	60098	12308	70610	12111	71840*	12702	72343	12696	86142	16101	87905	12557	07169	11048	07308	12028	07702	12938
55910	14420	60099	12310	70710	12201	71841*	12704	72345	12728	86144	16103	87917	12559	07170	11049	07309	12029	07703	12939
55971	14427	60100	12311	70714	12202	71842*	12706	72347	12698	86145	12270	87918	12560	07171	11050	07310	12036	07710	12851
55984	14425	60101	12312	70716*	12250	71843*	12708	72352	12727	86146	12271	87919	12561	07172	11051	07317	12038	07730	12964
55991	14422	60120	16000	70717*	12252	71844*	12712	72354	12697	86791	12537	87920	12562	07173	11052	07330	12018	07731	12965
56000	12100	60121	16001	70718	12203	71845*	12714	72356	12729	86792	12538	87932	12586	07174	11053	07331	12019	07732	12966
56200	12101	60122	16006	70722	12205	71847*	12722	72358	12699	86793	12539	87933	12587	07180	11054	07350	11103	07733	12967
56205	12103	60124	16008	70795	12207	71855	12700	72363	14090	86794	12540	87934	12588	07181	11055	07351	11101	07734	12968
56800	14206	60125	16009	70796	12208	71856	12710	72364	14091	86801	12542	87935	12589	07182	11056	07352	11102	07736	12969
56801	14208	60126	16011	70797	12209	71876	12733	72365	14092	86802	12543	87936	12590	07183	11057	07353	11104	07737	12873
56900	14221	60127	16012	70801	12213	71877	12735	72375	12691	86803	12544	87940	12564	07184	11058	07354	11110	07738	12874
56901	14223	60170	12937	70802	12214	71878	12737	72376*	12726	86804	12545	87942	12565	07185	11059	07355	11106	07739	12875
57005	14200	60171	12938	70803	12216	71879	12754	72377*	12728	86810	12547	87944	12566	07186	11060	07356*	11107	07740	12876
57008	14201	60172	12939	70804	12212	71883	12756	72380	12742	86811	12548	88031	12527	07187	11061	07357*	11108	07741	12877
57009	14202	60300	14026	70805	12215	71890	12763	72381	12744	86812	12549	88033	12528	07188	11062	07358*	11109	07742	12878
57010	14203	60325	12283	70807	12211	71891	12764	72382	12746	87109	12506	88034	12529	07189	11063	07359*	11110	07787	12253
57011	14204	60326	12284	70815	12248	71894*	12726	72383	12748	87110	12507	88049	12530	07190	11064	07500	12100	08000	12401
57012	14205	60330	12285	71685	12921	71895*	12728	72385	12936	87111	12508	88051	12531	07191	11065	07501	12100	08001	12403
57050	14211	60331	12286	71686	12922	71896	12747	72386	12935	87112	12509	88070	12500	07192	11066	07502	12102	08002	12405
57051	14212	60332	12282	71687	12923	71897	12745	72390	12932	87113	12510	88071	12501	07193	11067	07503	12103	08004	12406
57052	14213	70201	12222	71688	12918	71899	12749	72391	12933	87119	12512	88072	12502	07200	11068	07508	12104	08008	14480
57053	14214	70221	12257	71689	12919	71915	13013	72395	12784	87120	12513	88073	12503	07201	11069	07509	12105	08010	12237
57054	14215	70225	12217	71690	12920	71986	45838	72396	12785	87121	12514	88075	12504	07202	11070	07510	12106	08011	12238
57055	14216	70226	12218	71691	12915	71987	45840	72397	12781	87122	12515	88078	12532	07203	11071	07511	12107	08012	12239
57056	14217	70227	12219	71692	12916	72234	14052	72398	12780	87123	12516	88079	12533	07204	11073	07512	12108	08013	12240
57060	14209	70228	12220	71693	12917	72235	14053	72400	12772	87131	12526	88080	12534	07205	11074	07513	12109	08014	12245
57061	14210	70229	12221	71694	12912	72236	14054	72401	12771	87200	12518	93097	12050	07206	11075	07516	12111	08020	12241
57070	14218	70301	12223	71695	12913	72237	14055	72402	12773	87201	12519	R&B/SHARK		07207	11076	07517	12112	08021	12242
57071	14219	70326	16051	71696	12914	72238	14056	72403	12774	87202	12520			07208	11077	07518	12113	08023	12243
57103	14225	70365	16050	71736	12812	72239	13202	72404	12775	87203	12521	07100	11000	07209	11078	07524	12234	08025	12244
57105	14226	70367	16052	71737	12813	72240	13201	72405	12776	87204	12522	07101	11001	07210	11079	07525	12201	08030	16100
57601	12236	70368	16053	71738	12814	72241	13203	72406	12777	87205	12523	07102	11002	07211	11080	07527	12202	08031	16101
57602	12235	70369	16054	71739	12815	72242	13209	72407	12778	87206	12524	07105	11003	07212	11081	07528	12203	08032	16102
57710	12226	70371	16055	71740	12816	72243	13210	72408	12779	87496	12428	07106	11004	07214	11082	07530	12205	08033	16103
58400	12225	70372	16056	71741	12817	72266	14072	72485	12959	87727	12426	07107	11005	07215	11083	07531	12206	08040	12260
58402	12224	70373	16057	71742	12818	72270	14097	72486	12961	87728	12425	07110	11006	07216	11084	07532	12207	08041	12261
58601	14314	70374	16058	71749	12805	72271	14060	72487	12962	87729	12436	07111	11007	07226	11085	07533	12208	08042	12264
58602	14312	70375	16060	71750	12806	72272	14063	72488	12963	87730	12422	07112	11008	07227	11086	07534	12209	08043	12265
58603	14313	70376	16061	71751	12807	72273	14083	72489	12954	87791	12605	07120	11009	07228	11087	07535	12210	08044	12266
58612	14317	70377	16059	71752	12808	72274	14088	72491	12952	87805	12415	07121	11010	07229	11088	07542	12211	08045	12262
58613	14318	70378	16064	71753	12809	72275	14076	72492	12953	87806	12413	07122	11011	07230	11088	07543/4	12212	08046	12267
58617	14310	70379	16065	71754	12810	72276	14075	72493	12957	87807	12417	07123	11012	07231	11089	07545	12213	08047	12270
58618	14311	70385	16062	71755	12811	72277	14078	72494	12955	87808	12419	07124	11013	07232	11090	07550	12214	08048	12271
58619	14319	70386	16063	71757	12819	72278	14077	72495	12952	87809	12420	07125	11014	07233	11091	07551	12050	08049	12263
58620	14320	70469	14014	71758	12820	72279	14079	72496	12957	87810	12421	07126	11015	07234	11092	07552/3	12215	08050	12287
60001	14070	70470	14015	71759	12821	72282	1404												



R&B/SHARK CROSSOVER

R&B	Shark	R&B	Shark	R&B	Shark	R&B	Shark	R&B	Shark	R&B	Shark	R&B	Shark
08088	12428	08261	12576	08599	12733	08743	12953	09003	14005	09512	14103	09755	14452
08089	12429	08262	12577	08605*	12734	08744	12951	09004	14003	09513	14109	09757	14454
08091	12420	08263	12578	08606	12735	08745	12955	09006	14004	09514	14105	09843	14414
08091	12430	08264	12579	08607	12736	08746	12956	09010	14006	09530	14200	09853	14415
08092	12433	08265	12580	08608	12737	08747	12960	09011	14010	09530B	14227	09897	14503
08092	12425	08266	12581	08609	12738	08750	12659	09017	14009	09531	14201	09898	14504
08100	12500	08267	12582	08610*	12739	08751	12961	09018	14012	09531B	14228	09680	14462
08101	12501	08268	12583	08611	12740	08752	12962	09020	14022	09532	14202		
08102	12502	08269	12584	08612*	12741	08753	12963	09021	14021	09532B	14229		
08103	12503	08270	12585	08625	12742	08760	12936	09022	14023	09533	14203		
08104	12504	08271	12586	08626*	12743	08762	12935	09025	14018	09533B	14230		
08110	12505	08271	12559	08628	12744	08765	12805	09025	14024	09534	14204		
08111	12506	08272	12587	08629*	12745	08766	12806	09026	14013	09534B	14231		
08112	12507	08272	12560	08640	12750	08767	12807	09027	14019	09535	14205		
08113	12508	08273	12588	08641	12751	08768	12808	09028	14020	09535B	14232		
08114	12509	08273	12561	08642	12752	08769	12809	09030	14025	09537	14206		
08115	12510	08274	12589	08643	12753	08770	12810	09031	14026	09538	14208		
08116	12511	08274	12562	08644	12754	08771	12811	09040	14073	09538B	14233		
08117	12512	08275	12563	08649	12755	08773	12812	09041	14071	09539	14433		
08118	12513	08275	12590	08650	12756	08774	12813	09043	14070	09540	14209		
08119	12514	08276	12591	08656	12746	08775	12814	09044	14072	09540B	14236		
08120	12515	08277	12592	08656	12759	08776	12815	09052	14027	09541	14210		
08121	12516	08278	12593	08657	12747	08777	12816	09053	14028	09541B	14237		
08122	12517	08279	12594	08657	12760	08778	12817	09054	14029	09546	14211		
08123	12518	08280	12595	08658	12749	08779	12818	09055	14030	09546B	14238		
08124	12519	08281	12596	08658	12762	08781	12819	09056	14031	09547	14212		
08125	12520	08282	12597	08659	12748	08782	12820	09057	14032	09547B	14239		
08126	12521	08283	12598	08659	12761	08783	12821	09058	14036	09548	14213		
08127	12522	08284	12599	08670	12763	08784	12822	09059	14034	09548B	14240		
08128	12523	08285	12600	08671	12764	08785	12823	09060	14035	09549	14214		
08129	12524	08286	12601	08675	12765	08786	12824	09080	14060	09549B	14241		
08130	12525	08287	12602	08676	12766	08787	12825	09081	14063	09550	14215		
08131	12526	08288	12603	08677	12767	08790*	12826	09082	14062	09550B	14242		
08140	12527	08291	12605	08678	12768	08791*	12827	09083	14061	09551	14216		
08141	12528	08310	12420	08679	12769	08792*	12828	09084	14064	09551B	14244		
08142	12529	08312	12416	08680	12770	08793*	12829	09085	14066	09552	14217		
08143	12530	08315	12421	08690	12771	08794*	12830	09090	14083	09552B	14243		
08144	12531	08316	12417	08691	12772	08795*	12831	09091	14088	09553	14218		
08150	12532	08317	12415	08692	12773	08796*	12832	09092	14086	09553B	14245		
08151	12533	08318	12413	08694	12774	08798*	12833	09093	14084	09554	14219		
08152	12534	08319	12412	08695	12775	08799*	12834	09094	14087	09554B	14246		
08153	12535	08500	12700	08696	12776	08800*	12835	09095	14089	09555	14221		
08160	12536	08502	12701	08698	12777	08801*	12836	09100	14052	09558	14225		
08161	12537	08504	12702	08699	12778	08802*	12837	09101	14053	09559	14226		
08162	12538	08506	12703	08700	12779	08802*	12838	09102	14054	09570	14306		
08163	12539	08508	12704	08702	12780	08804*	12839	09103	14055	09571	14308		
08164	12540	08510	12705	08703	12781	08813	13013	09104	14056	09572	14305		
08165	12541	08512	12706	08706	12933	08816	13008	09105	14057	09575	14301		
08166	12542	08514	12707	08708	12691	08817	13007	09106	14058	09576	14300		
08167	12543	08516	12708	08708	12782	08819	13006	09107	14059	09577	14302		
08168	12544	08518	12709	08710	12787	08825	12912	09110	14090	09578	14307		
08168	12545	08520	12710	08711	12788	08826	12913	09111	14091	09579	14309		
08170	12546	08522	12711	08712	12789	08827	12914	09112	14092	09580	14330		
08171	12547	08524	12712	08713	12790	08828	12915	09115	14093	09585	14317		
08172	12548	08526	12713	08714	12791	08829	12916	09116	14094	09586	14312		
08173	12549	08528	12714	08715	12792	08830	12917	09120	14075	09587	14318		
08174	12550	08530	12715	08716	16000	08832	12918	09121	14078	09588	14313		
08175	12551	08532	12716	08717	16001	08833	12919	09122	14076	09589	14314		
08180	12552	08534	12717	08718	16006	08834	12920	09123	14077	09595	14327		
08181	12553	08540	12718	08720	12800	08836	12921	09124	14079	09599	14328		
08182	12554	08542	12719	08721	12798	08837	12922	09125	14081	09604	14323		
08183	12555	08546	12722	08722	12797	08838	12923	09126	14080	09605	14324		
08184	12556	08548	12723	08723	12795	08850	12924	09127	14082	09607	14322		
08185	12557	18550	12724	08724	12793	08851	12925	09130	14042	09616	14401		
08186	12558	08551	12725	08725	12799	08852	12926	09131	14041	09617	14402		
08192	12564	08556	12726	08726	12796	08853	12927	09132	14045	09618	14404		
08193	12565	08557	12727	08727	12794	08871	13201	09133	14044	09619	14403		
08194	12566	08559	12728	08728	12801	08872	13202	09134	14046	09655	14425		
08195	12567	08560	12729	08729	12803	08873	13204	09135	14047	09657	14423		
08196	12568	08570	12694	08730	12802	08875	13205	09136	14048	09658	14424		
08197	12569	08571	12695	08731	12804	08878	13206	09139	14049	09674	14432		
08198	12570	08574	12696	08732	16008	08883	13210	09145	14074	09714	14417		
08199	12571	08575	12697	08733	16009	08884	13209	09146	14043	09715	14418		
08200	12572	08578	12698	08734	16011	08885	13211	09147	14085	09726	14453		
08201	12573	08579	12699	08735	16012	09000	14000	09149	14067	09730	14458		
08202	12574	08595*	12731	08740	12954	09001	14001	09504	14116	09730	14459		
08260	12575	08598*	12732	08742	12952	09002	14002	09509	14439	09730	14460		

* Indicates package quantity difference.



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