

Maintenance Welding Products

Steel

UZ offers three high performance Absolute Weld electrodes designed specifically for welding all types of steel and solving specific problems associated with maintenance welding of steel:

- **400S** is a general purpose, low carbon alloy electrode with high performance characteristics. If no two of your maintenance welding projects are the same, 400S is the one electrode that can handle all of the jobs you run into. Easy to use, self releasing slag, minimum spatter are all features that make the 400S electrode a superior all-purpose product.
- **410S** is designed for use on mild steel where rusty, contaminated or scaly steel base metals cannot be cleaned before welding. Weld over layers of paint, grease, sand or other materials that cause porosity or defective welds. 410S works very well when you are welding out of position.
- **420S** provides a super strength weld on high alloy and dissimilar steels. It can be used on all grades of carbon, alloy steel, toolsteel, mild steel, spring steel, manganese steel, heat treat steel, cast steel or any combination of these. Reduce your inventory with Absolute Weld 420S; this one rod can do the job of 10 specialty electrodes.



Cast Iron

Welding cast iron used to be difficult, if not impossible. The only solution was to scrap the item. Absolute Weld 100CI can solve a very expensive problem at a fraction of the cost of replacement:

- **100CI** is a high strength alloyed electrode specially designed for welding all types of cast iron, even under difficult maintenance conditions. Use 100CI to repair or build up casting defects. It can also be used for any repair of cast iron to steel. It produces dense, strong, crack resistant welds on all types of cast iron.

Aluminum

200A is UZ's solution to the problem of welding aluminum. 200A is a universal electrode for arc welding aluminum and aluminum alloys. This product replaces MIG and TIG where wind interferes with shielding gas or where repairs must be field welded. 200A offers excellent weldability in all positions, including vertical and overhead.

Stainless Steel

Absolute Weld 500SS is UZ's multi-purpose stainless steel electrode. It is the one rod that meets the unique demands of welding stainless steel. Exceptionally strong welds can be made easily on most 300 and 400 series stainless steel. 500SS can even be used for high temperature applications where 309 stainless steel is found.



Maintenance Welding Products

Gouging and Chamfering

When the maintenance repair requires beveling, cutting metal, cutting welds, removing frozen nuts or piercing holes, Absolute Weld 300CG is electrode of choice. It handles the task of gouging and chamfering of ferrous and non-ferrous metals quickly and easily. Additional features include excellent re-strike capability, smooth, uniform cuts and easy control.

Hard Surfacing

UZ offers two Absolute Weld products for hard surface work.

- **600W** is designed for maintenance welding situations where severe abrasion work needs to be done. In tough situations like these you will appreciate features like easy arc control, high deposition rate, smooth beads and self-releasing slag.
- **610W** is a high alloy electrode designed for build up and joining austenitic manganese steel. This electrode has extreme impact resistance. 610W produces tough deposits that will withstand extreme impact conditions.



Brazing

UZ's Absolute Weld product line offers five distinct items to meet every maintenance brazing situation:

- **20A** is a flux cored aluminum brazing alloy. It's tensile strength of 34,000 makes it almost twice as strong as common aluminum. Works at temperatures as low as 1100°F(593°C), minimizing warping, burn through and discoloration.
- **40S** is a high-strength, multi-temperature brazing alloy for joining and wear resistance build up. Working temperature range is 1400–1750°F (760°C-954°C).
- **70B** is a low fuming bronze alloy for use on most ferrous and non-ferrous metals. Does not require any additional flux.
- **80CB** is a self-fluxing copper/brass brazing alloy. Excellent for use in tight fitting joints.
- **90SI** is a silver brazing alloy for joining ferrous and non-ferrous metals. Cadmium free-non-toxic. Special flux coating provides excellent cleaning action on most metals and does not blacken.



Accessories

Absolute Heat Block is a heat resistant compound for insulating and positioning parts for welding. It is asbestos free, reusable, withstands temperatures up to 3000°F(1648°C), adheres to most surfaces.

Absolute Arc is an igniter compound that makes striking and re-striking an arc consistent and easy.

UZ also offers additional accessories such as welding helmets, replacement lens, welding caps, chipping hammers, strikers, and regular and extra long welding gloves.

Welding Assortment Deals

Absolute Weld Maintenance Electrode Assortment

If you do maintenance arc welding, the Absolute Weld Maintenance Electrode Assortment is for you!

- Reduce your inventory
- Save time and money
- Save space
- Reduce downtime

Create Your Own Assortment!

PART # 101452

Choose 3 pounds of the following:

PART #	DESCRIPTION	DIAMETER
100824	Absolute Weld 300CG Cutting and Gouging	1/8
100829	Absolute Weld 400S Mild Steel	1/8
100833	Absolute Weld 410S Deep Penetrating Mild Steel	1/8

AND Choose 3 pounds of the following:

PART #	DESCRIPTION	DIAMETER
100815	Absolute Weld 100CI Cast Iron	1/8
100822	Absolute Weld 200A Aluminum	1/8
100836	Absolute Weld 420S Alloy Steel	1/16
100838	Absolute Weld 420S Alloy Steel	1/8

That's a total of 6 pounds of Absolute Weld maintenance electrode!

Available in
an Assortment



PART # 101452

Found on Page 1149

PART # 101455

Found on Page 1149



Absolute Weld Brazing and Soldering Assortment

PART # 101455

Make fast, effective, low cost repairs in a wide range of applications with UZ's Absolute Weld Brazing and Soldering Assortment

- Reduce your inventory
- Save time & money
- Comes in an easy to carry, sturdy utility tool box with a lift out tray
- Reduce downtime
- Save space

ASSORTMENT CONTAINS:

PART #	QUANTITY	DESCRIPTION	DIAMETER
100797	1 ea.	Low Temp Solder Kit	—
100803	1 lb.	Absolute Weld 40S	1/8
100809	1 lb.	Absolute Weld 70B	1/8
100812	1 lb.	Absolute Weld 80CB	1/8
68140	1 ea.	Mini Butane Torch	—
450160	1 ea.	Utility Box	—



Receive a **FREE** welders cap with every assortment!

Low Temperature Solder Kit

Strong Low Temperature Solder For Most Ferrous And Non-Ferrous Metals

- Low bonding temperature
- Bond strength remains high even at temperatures up to 350°F (176°C)
- Excellent wetting and flow characteristics
- Better corrosion resistance and higher strength than ordinary soft solders
- Flux is especially designed to dissolve aluminum oxide and make soldering easy
- Can be used on aluminum wire, electrical connections and zinc base die casting

APPLICATIONS:

- Maintenance applications that require low heat and high strength
- Manufacture and repair of instruments, zinc based die casting and joining of dissimilar metals
- Can also be used on anodized aluminum

USE TO REPAIR:

Aluminum Tube
Copper Tube
Refrigeration and Air Conditioning Units
Aluminum Radiators
Sheet Metal Work, etc.

TECHNICAL DATA:

Tensile Strength	up to 22,000 PSI
Working Temperature	509°F (265°C)
Color Match	Very good on aluminum
Electrical Conductivity	Good
Corrosion Resistance	Good

PROCEDURES:

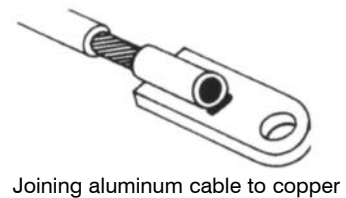
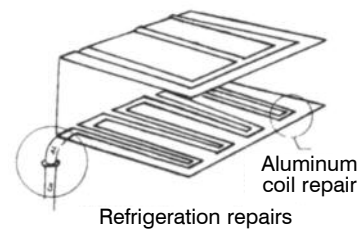
Joint area should be thoroughly cleaned. Best results are obtained when maintaining a joint clearance of no more than .006". The entire joint area should be completely covered with flux. Heat part with a soft flame being careful not to burn the flux. As soon as the flux starts to bubble, dip solder into flux and transfer it to joint. Continue heating until solder flows through the entire joint. Allow to cool slowly. Flux residue can be removed with hot water and a stiff brush.

Low Temperature Solder Kit

PART # 100797

KIT CONTAINS:

10' non-ferrous alloy; 1/16 diameter
1 bottle flux



Aluminum Solder

Self-Fluxing Solder For Joining and Build Up of Aluminum, Pot Metal, Zinc-Based Castings and Kirksite

- High zinc content results in good color match to aluminum
- Low working temperature prevents warping, distortion and discoloration
- Eliminates post cleanup work since no flux is used

APPLICATIONS:

- Joining aluminum extrusions used in the repair and manufacture of aluminum doors and windows
- Ideal for repairing gutters and siding, aluminum boats and instrument boxes
- Repair of most zinc based die casting and kirksite (an alloy of aluminum and zinc).
- Can also be used as a wearfacing alloy on aluminum
- Good for "pot metal"

USE TO REPAIR:

Extruded Aluminum	Doors
Patterns	Instrument Boxes
Refrigeration	Engine Castings
Aluminum Siding	Lawn Mowers
Windows	Oil Pans
Gutters	Furniture
Aluminum Bodies	Boats
Tanks	

TECHNICAL DATA:

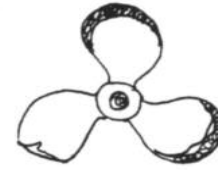
Tensile Strength	up to 35,000 PSI
Working Temperature	Approximately 710°F (376°C)
Color Match	Very good
Corrosion Resistance	Very good

PROCEDURES:

Joint area should be thoroughly cleaned by scraping, filing, etc. Heavy sections should be beveled. Parts should be held in alignment by the use of jigs, clamps or **Absolute Heat Block**. Heat base metal to approximately 750°F (398°C) using a carburizing flame, rub alloy in the joint. Let heat from the part to be soldered melt the rod. Do not heat the rod with the flame. Vigorous rubbing of the base metal surface allows the rod to break through the tough oxide and onto the sound metal. The part should be allowed to cool slowly.

Part #	DIAMETER	QUANTITY
100798	1/8	5 ea.

***Absolute Heat Block** can be found on page 1176.



Repair worn aluminum propeller



General aluminum repair for good color match

UZ KwikSilver Solder Syringes

Even the most experienced maintenance professional will find UZ Kwik Silver Solder Syringes to be a better way to solder. The combination of an exceptional solder paste with a convenient dispensing syringe results in a soldering system that beats all other methods hands down! It's the perfect solution when repairs require a "third" hand.



Make Solder Repairs Easy!

- Easy to apply
- Excellent for close tolerance applications
- Dispensing method allows you to use entire product, eliminating waste and saving money
- Pinpoint dispensing eliminates mess, reducing clean-up time
- No need for separate flux - it's built into the paste
- No distortion, burn through or metallurgical changes in the base metal



Available in
an Assortment



PART # 00456

Found on Page 1149

UZ KwikSilver Solder Syringes come in three easy-to-use types:

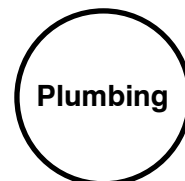
- **Aqua-Solder** - for plumbing applications
- **Electro-Solder** - for electrical and electronic applications
- **General-Purpose Solder** - for all of your general soldering needs

UZ KwikSilver Aqua-Solder Syringe

For Plumbing Applications

The low melting temperature enables repair to existing joints without disassembly and makes professional pipe joints with ease.

- Lead-free solder paste in a syringe applicator
- High strength for heavy gauge metals
- Safe for potable water systems
- Use on copper, brass alloys and most steel pipe and fixtures



PART #	QTY	SIZE
100787	1	.5 oz.

ALSO AVAILABLE:

100793	Plumbers Solder 1 lb. Spool, 1/8" dia.
100845	Silver Brazing Flux, 12 oz.

TECH DATA:

Tensile Strength	8,150 psi
Working Temp.	461°F (238°C)
Corrosion Resistance	Good

Soldering

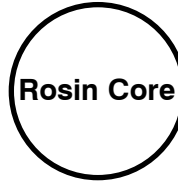
UZ KwikSilver Electro-Solder Syringe

Rosin Core solder

- Non-corrosive, built-in flux solder alloy for electrical and electronic applications
- Contains no cadmium
- Active flux wets and tins metal quickly
- Produces high strength joints at a low melting temperature
- Positive bonds without electrical shorts
- Flux residue is non-conductive and non-corrosive

APPLICATIONS:

All electrical and electronic connections
Printed circuit boards



PART #	QTY	SIZE
100789	1	1.0 oz.

ALSO AVAILABLE:

100795	Silver Solder Coil, 1/16" dia. 9' coil	
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TECH DATA:

Tensile Strength	8,360 psi
Working Temp.	430°F (221°C)
Hardness (HB)	15
Corrosion Resistance	Excellent
Electrical Conductivity	Excellent

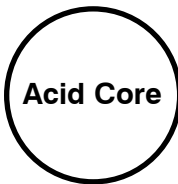
UZ KwikSilver General-Purpose Solder Syringe

Acid Core solder for general use

- For use on steel, stainless steel, copper, bronze, nickel and most other metals, except aluminum and magnesium
- Safe for applications involving food and beverage
- Deposits will not blacken

APPLICATIONS:

Hydraulic shafts	Kitchen/Hospital Equipment	Dairy Equipment
Refrigeration	Regulators	Food Vessels
Sinks	Oxygen lines	Sanitary apparatus
Instruments	Hobby Repairs	



PART #	QTY	SIZE
100788	1	1.0 oz.

ALSO AVAILABLE:

100796	Silver Solder Coil, 1/16" dia., 9' coil	
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TECH DATA:

Tensile Strength	8,360 psi
Working Temp.	430°F (221°C)
Hardness (HB)	15
Color Match	Excellent on stainless steel
Corrosion Resistance	Excellent
Electrical Conductivity	Very good

Acid Core Solder

- For all non-electrical applications of copper, steel, nickel plate, brass and tin plate
- Excellent for plumbing, copper tubing, tools, gutters, and auto radiators

PART #	TIN/LEAD CONTENT	DIAMETER	SIZE
100791	40/60	1/8	1 lb. spool
100794	60/40	1/16	9' coil

Rosin Core Solder

- For all electrical applications of copper, silver plate, tin plate, and gold plate

PART #	TIN/LEAD CONTENT	DIAMETER	SIZE
100792	40/60	1/8	1 lb. spool
102613	40/60	1/16	9' coil
102612	60/40	1/32	9' coil



Silver Solder

- 96.5% Tin, 3.5% Silver
- For stainless steel, dissimilar metals, and chrome plating
- Contains no corrosive metals
- Leaves shiny deposits

PART #	CORE	DIAMETER	SIZE
100795	Rosin	1/16	9' coil
100796	Acid	1/16	9' coil

Plumbers Solder

- Lead Free-95% Tin, 5% Antimony
- Safe for food and potable water applications
- Flux is required-Silver Solder Flux #100845
- Repair copper plumbing, hot water tanks, refrigeration systems and other high strength applications
- Not for electrical applications

PART #	DIAMETER	SIZE
100793	1/8	1 lb. spool

Brazing

Absolute Weld 20A

Unique Flux Cored Aluminum Brazing Alloy

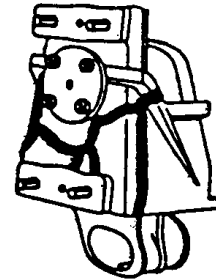
- With a tensile strength of 34,000 PSI, this alloy is almost twice as strong as common aluminum
- Low working temperature of 1100°F (593°C) minimizes warping, burn through and discoloration
- Flux core is protected from contamination
- All position application with an oxy/fuel torch
- Excellent for joining dissimilar gauges and for poor fit applications

APPLICATIONS

- Build-up, repair, and fabricating of all weldable grades of aluminum including cast alloys

USE TO REPAIR:

Air Conditioning Units
Window Frames
Aluminum Furniture
Kitchen Equipment
Truck Bodies
Railings
Duct Work
Tanks



Repairs Dirty
Aluminum
Castings

TECHNICAL DATA:

Tensile Strength	up to 34,000 PSI
Working Temperature	1100°F (593°C)
Elongation %	15 to 25
Hardness (HB)	40 to 55
Color Match	Good (will darken if anodized)
Corrosion Resistance	Good

PROCEDURES:

Remove foreign material and oxides from weld area by scraping, filing, etc. Parts thicker than 3/16" should be beveled to form a 60° vee. Heat work broadly to about 1000°F (537°C) using a slightly carburizing flame. Melt 1/4" of the rod onto the work piece (the flux will also turn to a liquid); continue heating until alloy flows out. Continue adding alloy a drop at a time until weld is complete. Cool part slowly. Remove all flux residue with a stiff brush and hot water.

PART #	DIAMETER	QUANTITY
100813	1/8	1 lb.

Absolute Weld 40S

High Strength Multi-Temperature Brazing Alloy

For Joining And Wear Resistance Build Up

- Use as both a joining and build-up type alloy
- Tensile strength of over 113,000 PSI can be easily achieved

MULTI-TEMPERATURE:

- Low at 1400° to 1600°F (760°C-871°C) this alloy has controlled fluidity
This makes it excellent for surfacing and build-up of parts subjected to frictional wear
- High-at 1650°F to 1750°F (898°C-954°C) it becomes thin flowing and produces high strength joints with only .001" to .003" clearance

APPLICATIONS:

- Use to join or build-up carbon steels, cast iron, alloy steel and many non-ferrous materials to themselves or multiple combinations
- Low Temperature Build-up and overlaying of gear teeth, shafts, valve seats, bearings, wedge bars and steering knuckles
- High Temperature Ideal for close fitting joints on mill cutters, broken drills, bicycle assemblies, furniture assemblies, attaching carbide cutting tips and other high strength applications

AUTOMOTIVE/FLEET:

Doors	Chain Links	Heater Parts	Radiators
Door Posts	Spring Shackles	Drain Plugs	Unibody
Tops To Drip Molding	Brackets		

PLUMBING SHOPS:

Sheet Metal Fabrication	Galvanized Steel Pipes	Drill Extensions
Pipe Racks and Brackets		

MACHINE/TOOL AND DIE SHOPS:

Repairing Broken Drills	Milling Cutters	Jigs And Fixtures
Extending Drills	Repairing Tools	Fixtures
Grills	Joining Carbide Cutting Tips	

IMPELLERS MINES/QUARRIES:

Joining Carbides On Rock Drills
Rebuilding Worn Cutters



Carbide tool repair

SPORTING:

Steel Boats	Motorcycle/Bicycle Frames
Golf Carts	Towing Trailer Frames

TECHNICAL DATA:

Tensile Strength	up to 113,800 PSI
Hardness (HB)	140-200
Working Temperature	1400°-1750°F (760°C-954°C)
Remelt Temperature	Approximately 1800°F (982°C)

PROCEDURES:

Grind surfaces to be joined or built-up. Concentrate a neutral flame on the base metal, not on molten alloy. Constant motion of the torch prevents over heating of local area. Small diameter rods are used as a joining alloy. Build-up and surfacing generally require the larger diameter rods. Multi pass build-up can be made without removing the flux residue from previous passes. Remove flux by chipping and wire brushing after the part has been allowed to cool slowly.

PART #	DIAMETER	QUANTITY
100799	1/16	1 lb.
100800	1/16	5 lb.
100801	3/32	1 lb.
100802	3/32	5 lb.
100803	1/8	1 lb.
100804	1/8	5 lb.

Brazing

Absolute Weld 70B

Low Fuming Bronze Alloy

For Use On Most Ferrous And Non-Ferrous Metals

- Free flowing, porosity free and easily machined
- Especially good on thin metals because of its fast action, low melting temperature and smoothness
- No additional flux needed
- Low fuming-safer work environment with better visibility and less noxious fumes to be evacuated

APPLICATIONS

- For maintenance and repair or fabrication of most ferrous and non-ferrous metals including steel, cast iron, copper, brass, bronze and galvanized parts
- Build-up and overlay of gear teeth, shafts, valve seats, bearings, wedge bars, and steering knuckles
- Ideal for close fitting joints on mill cutters, broken drills, bicycle and furniture assemblies, and attaching carbide cutting tips

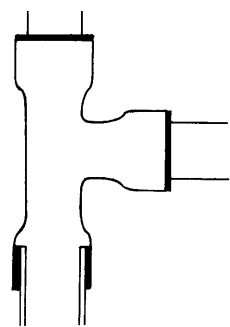
TECHNICAL DATA:

Tensile Strength	up to 64,000 PSI
Yield Strength	up to 42,600 PSI
Working Temperature	1600°F (871°C)
Hardness (HB)	80 to 110

PROCEDURES:

Concentrate an oxidizing flame on the base metal. Heat the end of the rod and transfer to the working area. The torch flame should be concentrated where the alloys are wanted; the molten alloy will follow the heat. Do not overheat. Allow part to cool slowly. A chipping hammer and wire brush can be used to remove flux residue.

Copper tubing & pipe



PART #	DIAMETER	QUANTITY
100805	1/16	1 lb.
100806	1/16	5 lb.
100807	3/32	1 lb.
100808	3/32	5 lb.
100809	1/8	1 lb.
100810	1/8	5 lb.

Absolute Weld 80CB

Phosphor-Copper Brazing Alloy, General Purpose, Copper-To-Copper, Self-Fluxing Alloy

- Excellent for use on tight fitting joints
- Self-fluxing on copper to copper joints
- Versatile means of application-oxy/fuel torch, induction, furnace, etc.
- Use Silver Brazing Flux #100845 when using this alloy on brass or bronze
- For use on copper, brass and bronze

TECHNICAL DATA:

Phosphorus	7%
Copper	Rem.
Liquidus	1465°F (796°C)
Solidus	1190°F (643°C)
Brazing Range	1300°F to 1500°F (704°C-815°C)

PROCEDURES:

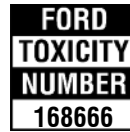
The joint should be clean and free of foreign matter. These alloys are self-fluxing when joining copper to copper. When joining copper to brass or bronze or to themselves, flux the joint area with Silver Brazing Flux. Use a slightly carburizing flame keeping the torch in motion. When the flux liquefies, add filler metal and allow to flow through the joint. Remove flux residue with wire brush and hot water.

PART #	DIAMETER	QUANTITY
100811	3/32	1 lb.
100812	1/8	1 lb.

Brazing

Absolute Weld 90SI

"Pink Lady"

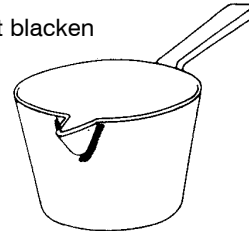


Silver Brazing Alloy For Joining Ferrous and Non-Ferrous Metals

- Versatility to work with most metals
- Can be plated
- Cadmium free-Non-toxic
- High silver content-56%
- Special flux coating provides excellent cleaning action on most metals and does not blacken
- Excellent thin flowing capabilities

APPLICATIONS:

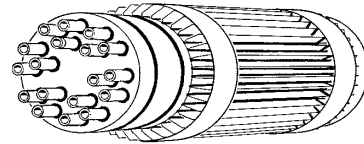
- Use in the food and dairy industry for joining stainless steels
Also used for general maintenance, repair, and assembly
- Ideal for food and pharmaceutical applications since it is cadmium free



Food processing and handling equipment

USE TO REPAIR:

Laboratory Apparatus	Control Devices
Instruments	Tubing
Trim Work	Switches
Food And Beverage Equipment	Medical Equipment
Surgical Equipment	Automotive Cooling Systems
Tanks	Vats



Tubing header joints of heat exchange

TECHNICAL DATA:

Tensile Strength	up to 76,000 PSI
Working Temperature	approximately 1220°F (660°C)
Elongation %	approximately 22
Corrosion Resistance	Good
Color Match	Good on stainless steel
Electrical Conductivity	Good

PROCEDURES:

Joint must be clean. For maximum strength, joint clearances should not exceed .003". Maintain alignment by use of fixtures and jigs. Heat parts broadly with a slightly carburizing flame. Place flux on the heated joint. When the flux becomes clear and fluid, melt a small amount of alloy onto the joint. Continue heating until the alloy flows into the joint. Base metal must not be over heated. After part has cooled slowly, remove flux residue with warm water.

PART #	DIAMETER	QUANTITY (Sticks)
100858	1/16	5 ea.
100859	3/32	5 ea.

Absolute Weld 100CI

High Strength Alloyed Electrode Specially Designed For Welding All Types Of Cast Iron, Even Under Difficult Maintenance Conditions

- Produces dense, strong, crack resistant welds on all types of cast iron
- Designed for use on contaminated, old, oil soaked, dirty castings
- Can be used to join cast iron to steel
- Excellent for use on gray ductile, "Meehanite" and nodular cast iron
- Machinable deposits
- Welds in all positions

**AC or DC
Reverse**

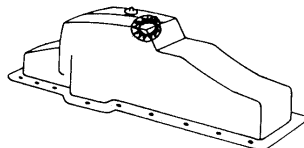
**FORD
TOXICITY
NUMBER
159214**

APPLICATIONS:

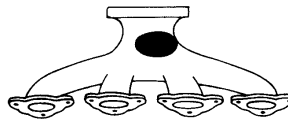
- Use to join, build-up, or overlay all types and grades of cast iron including meehanite, malleable iron, ductile iron, gray iron
- Repair or build-up of casting defects, large and cast iron gears
- Any repair of cast iron to steel

USE TO REPAIR:

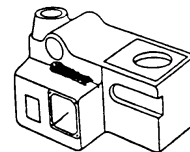
Sewer Pipe	Machine Bases	Gear Housings	Transmission Housings
Sprockets	Compressor Heads	Axle Housings	Clutch Housings
Crank Cases	Cylinder Blocks	Cast Iron Dies	Engine Blocks
Foundry Flasks	Gear Teeth	Loom Arms	Manifolds
Pump Impellers	Turbines		



Oil Pans & Cylinder Heads



Cast Iron Manifolds



Dirty, Oil Soaked Cast Iron Machine Parts

TECHNICAL DATA:

Tensile Strength	up to 75,000 PSI
Elongation %	approximately 23
Hardness (HB)	approximately 210
Ford Tox #	159214

PROCEDURES:

Remove worn or cracked metal on heavy sections. Bevel joint using Absolute Weld 300CG and a grinding wheel. Use a drilled hole or weld bead at the end of all cracks to prevent spreading while welding. Preheat to approximately 400°F (204°C) on very heavy sections. Use short stringer beads for root pass. Peen lightly after removing slag. Use lowest amperage possible and maintain a short to medium arc to minimize base metal overheating. Always fill the crater and drag rod back over the weld deposit when breaking the arc. A weave of two times rod diameter is acceptable for cover beads on multi-pass work. Joints should be allowed to cool slowly for maximum machinability and strength.

PART #	DIAMETER	AMPERAGE	QUANTITY
103075	3/32	40-70	1 lb.
100814	3/32	40-70	5 lb.
100815	1/8	70-110	1 lb.
100816	1/8	70-110	5 lb.

Welding

Absolute Weld 200A

Universal Aluminum Electrode For Arc Welding Aluminum And Aluminum Alloys

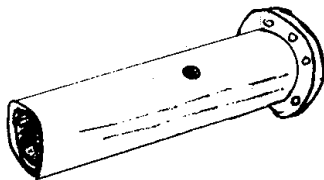
- Strong, dense, porosity free welds
- Excellent weldability in all positions, including vertical and overhead
- Good color match on most types of aluminum
- Ideal for heat treated aluminum parts
- Can also be used as an oxy-acetylene brazing rod

APPLICATIONS:

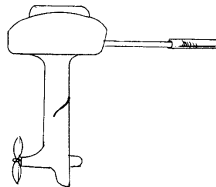
- Used for repair of machining errors, build-up of missing sections of castings, extrusions, plates, etc.
- Also excellent for truck, bus and automotive parts repair
- Replaces MIG and TIG in situations where wind interferes with shielding gas or where repairs must be field welded

USE TO REPAIR:

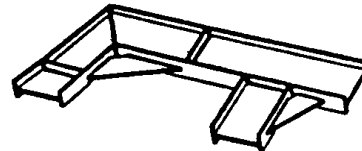
Tanks	Pipes	Ladders	Shelves
Refrigeration Equipment	Foundry Patterns	Truck Frames	Highway Signs
Engine Blocks	Guard Rails	Heat Exchangers	Injection Molds
Loader Arms	Loading Skids	Transmission Cases	Oil Pans
Fixtures	Cylinder Heads	Dock Plates	All Aluminum Equipment



Punctures in Aluminum Pipes



Aluminum Castings Repair



Aluminum Structural Sections

TECHNICAL DATA:

Tensile Strength	up to 34,000 PSI
Elongation %	15 to 25
Hardness (HB)	40 to 55
Color Match	Good (will darken if anodized)

PROCEDURES:

Clean weld area. Bevel of 70° to 90° should be used on parts 1/8" or heavier. Preheat is not necessary on thin gauges but faster, flatter, smoother beads are produced on heavier sections when they are preheated to approximately 400°F (204°C). The electrode should be held vertical to the work piece; maintain a short arc and fast travel speeds. Either stringer beads or weaving may be used. Slag must be removed between passes. Restrike on existing weld deposits. Part should be allowed to cool slowly, slag should be chipped off before quenching. Complete slag removal is accomplished by using a wire brush with a 10% sulfuric acid and hot water solution. Rinse with clean hot water.

PART #	DIAMETER	AMPERAGE	QUANTITY
100820	3/32	50-80	1 lb.
100821	3/32	50-80	5 lb.
100822	1/8	80-130	1 lb.
100823	1/8	80-130	5 lb.

**DC
Reverse**

**FORD
TOXICITY
NUMBER
159216**

Absolute Weld 300CG

"Rodzilla"

**AC or DC
Straight**

**FORD
TOXICITY
NUMBER
159217**

High Speed Chamfering And Gouging Electrode

- Excellent restrike capability
- Special coating produces a forceful arc blow which eliminates the need for compressed air or oxygen
- Easy control of groove size and depth
- Smooth, uniform cuts in all positions
- Works on any metal

APPLICATIONS:

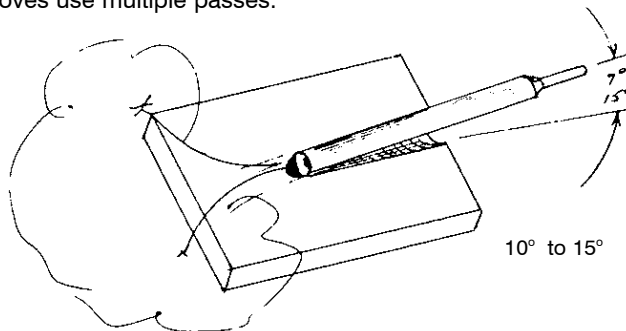
- Gouging and chamfering of ferrous and non-ferrous metal
- Use to remove unwanted or defective weld metal
- Prepare parts prior to welding
- Remove risers
- Reduce large areas of metal prior to machining

USE TO:

Bevel, Cut All Metals, Cut Welds, Remove Frozen Nuts, Pierce Holes

PROCEDURES:

Use DC straight polarity for clean, high speed cuts. The electrode should be held at a low angle to the work piece (10° to 15°). With the electrode pointed in the direction of desired groove, strike the arc and push the electrode as fast as the metal is removed. A short arc should be maintained. The maximum depth of the groove should not be greater than the diameter of the core wire. For deeper grooves use multiple passes.



PART #	DIAMETER	AMPERAGE	QUANTITY
100824	1/8	210-350	1 lb.
100825	1/8	210-350	10 lb.
103077	5/32	250-400	1 lb.
100826	5/32	250-400	10 lb.

Welding

Absolute Weld 400S

"The Big Easy"

Easy To Use, General Purpose Electrode For Welding Low Carbon Steels

- All position capability, even vertical and overhead
- Excellent ease of application, even on re-strike
- Designed to operate on all welding machines, even small AC type transformers
- Low amperage requirement helps prevent distortion and burn through when welding thin sheet metal
- Self-releasing slag, actually peels off by itself
- Smooth running-smoke and spatter are kept at a minimum
- Simple to use, even for non-professional welders

APPLICATIONS:

- Use for fabrication of thin, medium, heavy and dissimilar gauge mild steel
- Machine parts, beams, pipes, plates, sheets and angle iron can be welded in all positions
- Use for filling holes and build-up of worn and over-machined surfaces
- The outstanding restart characteristics of this electrode allow it to be used on applications requiring short, intermittent or spot welds

Virtually every type of industry has an application for Absolute Weld 400S...

Foundries	Food Processors	Agriculture	Machine Shops
Laundries	Schools	Railroads	Steel Mills
Paper Mills	Plastic Plants	Chemical Plants	Hospitals
Mines	Quarries	Cement Plants	Refineries, Etc.

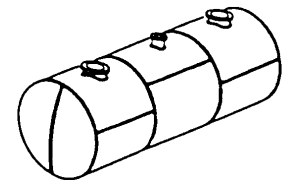
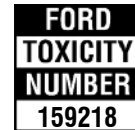
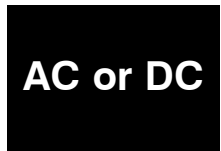
TECHNICAL DATA:

Tensile Strength	up to 80,000 PSI
Yield Strength	up to 68,000 PSI
Elongation %	Approximately 24

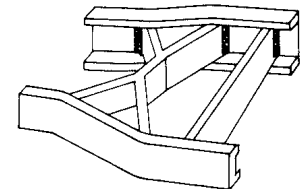
PROCEDURES:

As much foreign material as practical should be removed from the weld area. Deep penetration can be accomplished by using DC reverse polarity. Limited penetration and a flattened bead will result from using DC straight polarity. Arc blow can be prevented by using AC. Maintain medium arc length with either stringer or weave beads. Slag can be easily removed with a light chipping hammer.

PART #	DIAMETER	AMPERAGE	QUANTITY
103078	1/16	20-50	1 lb.
100827	1/16	20-50	5 lb.
103079	3/32	35-80	1 lb.
100828	3/32	35-80	10 lb.
100829	1/8	65-125	1 lb.
100830	1/8	65-125	10 lb.
103080	5/32	90-160	1 lb.
100831	5/32	90-160	10 lb.



Steel Tank Fabrication



Out-of-position welding in difficult to reach places

Absolute Weld 410S

"Joe Dirt"

Mild Steel Electrode For Maintenance Applications On Rusty, Contaminated And Scaly Base Metal

- Penetrates through dirt, grease, oil, rust, etc.
- Excellent out of position capability
- Can be used for multi-pass welding without slag removal with no inclusions or slag interference
- Low amperage capability reduces distortion on light gauge metals

**AC or DC
Reverse**

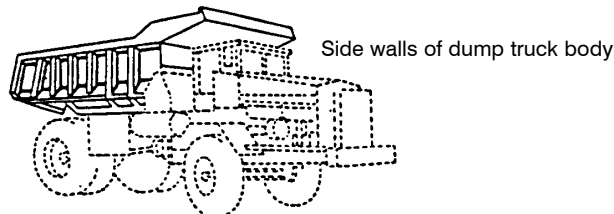
**FORD
TOXICITY
NUMBER
159219**

APPLICATIONS:

- Excellent for maintenance applications where poor fit-up is encountered
- Good arc stability at low amperage also makes it excellent for applications involving light gauge steel
- Use with very high amperage to get deep penetration in heavier gauge steels
- Welds are easily made on steel beams and girders that have many coats of paint without developing porosity or defective welds
- Excellent for making repairs on machines and equipment that are covered with grease and sand and cannot be cleaned before welding

USE FOR:

Automotive Repair, Pipeline Welding, Storage Tanks, General Construction, General Fabrication



TECHNICAL DATA:

Tensile Strength	up to 85,000 PSI
Yield Strength	up to 69,000 PSI
Elongation %	Approximately 25

PROCEDURES:

Clean weld area as much as practical. Use lower end of amperage range if an edge build-up is required or thin steel is being welded. Use higher end of amperage range if the weld area is extremely dirty or if heavy penetration is required. A close to medium arc should be maintained. Slag removal is recommended but not necessary between passes.

PART #	DIAMETER	AMPERAGE	QUANTITY
103081	3/32	20-100	1 lb.
100832	3/32	20-100	10 lb.
100833	1/8	30-140	1 lb.
100834	1/8	30-140	10 lb.
103082	5/32	50-175	1 lb.
100835	5/32	50-175	10 lb.

**AC or DC
Reverse**

Absolute Weld 420S

"The Hulk"

Super Strength Electrode For Welding High Alloy And Dissimilar Steels

*Re-formulated to provide the best possible arc stability
even under adverse conditions!*



**FORD
TOXICITY
NUMBER
159204**

- Can be used for practically all maintenance repairs
- Replaces up to 10 different types of ordinary rod
- All position electrode
- Produces smooth, porosity free welds without undercut or spatter
- Can be used as a tool for removing broken studs, drills and taps

Applications:

- Use on all grades of carbon steel, alloy steel, tool steel, mild steel, spring steel, manganese steel, heat treated steel, cast steel or any combination of these
- Use as build up prior to hard facing
- Use to join stainless steel of unknown analysis to carbon steels
- Excellent for broken stud removal

- Construction:** Bucket Teeth, Grousers, Grader Blades, Trenches, Shovel Buckets, Augers
Foundry: Annealing Racks, Sizing Racks, Wear Plates, Conveyors, Machine Grates
General Maintenance: Crank Shafts, Sprockets, Hubs, Pinions, Agitators
Machine Shop: Jigs, Fixtures, Molds, Dies, Shafts, Punches
Mining: Rails, Pump Shafts, Washing Screens, Loader Parts, Cutter Bars, Coal Augers



Heavy duty automotive leaf springs



Dissimilar Steels



High Torque Applications

Technical Data:

Tensile Strength As Welded	up to 128,000 p.s.i.	} ← → Higher tensile strength
Tensile Strength Work Hardened	up to 186,000 p.s.i.	
Yield Strength	up to 90,000 p.s.i.	← → Improved Elongation
Elongation %	approximately 32%	
Hardness (HB)	approximately 320	

Procedures:

Remove all foreign material from joint area. Heavy sections should be beveled to form a 90° vee. High carbon steel should be preheated to 400°F (204°C). Maintain alignment by use of jigs, fixtures, and tack welds. Use stringer beads to prevent over-heating and maintain a short arc. Part should be allowed to cool before removing slag.

PART #	DIAMETER	AMPERAGE	QUANTITY
100836	1/16	30-40	1 lb.
105530	5/64	35-50	1 lb.
105531	5/64	35-50	5 lb.
103083	3/32	35-70	1 lb.
100837	3/32	35-70	5 lb.
100838	1/8	60-110	1 lb.
100839	1/8	60-110	5 lb.
100840	5/32	75-140	5 lb.

ABSOLUTE WELD 420S

SUPER STRENGTH ELECTRODE FOR WELDING HIGH ALLOY
AND DISSIMILAR STEELS

ASSORTMENTS

All assortments come stored in an all-steel heavy-duty compartment drawer. (#00109)

See pg. 1150

420S SHOP ASSORTMENT #105532

Part Number	Description	Qty
100836	1/16"	1 lb.
100837	3/32"	5 lb.
100839	1/8"	5 lb.
00109	4 Compartment Drawer	1

3 SIZES/11 LBS.

420S MAINTENANCE ASSORTMENT #105533

Part Number	Description	Qty
100836	1/16"	1 lb.
100837	3/32"	5 lb.
100839	1/8"	5 lb.
100840	5/32"	5 lb.
00109	4 Compartment Drawer	1

4 SIZES/16 LBS.

420S INDUSTRIAL ASSORTMENT #105534

Part Number	Description	Qty
100836	1/16"	2 lb.
100837	3/32"	5 lb.
100839	1/8"	10 lb.
100840	5/32"	5 lb.
00109	4 Compartment Drawer	1

4 SIZES/22 LBS.

Welding

Absolute Weld 500SS

Multi-Purpose Stainless Steel Electrode For Use On A Wide Variety Of Stainless Steels As Well As Dissimilar Metal

- Welds in all positions
- Self-releasing slag
- Weld deposits are dense and porosity free
- Outstanding performance on AC machines

APPLICATIONS:

- Use to weld 309 stainless steel base metal. This type of stainless is used for high temperature applications as in oven and kiln linings, and boiler and furnace parts
- Use to join many of the 300 and 400 series of stainless steel to carbon steel
- Use for welding clad side of 18-8 clad steels and applying stainless steel sheet linings to carbon steel shells
- Also used on CH-20 HH castings

USE TO REPAIR:

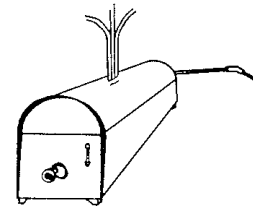
Agitator Blades, Cladding, Containers, Food and Beverage Processing Equipment, Heat Exchangers, Valves, Vessels, Sanitary Equipment

TECHNICAL DATA:

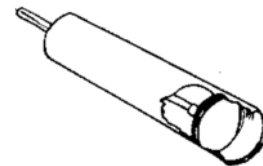
Tensile Strength	up to 85,000 PSI
Yield Strength	up to 55,000 PSI
Elongation in 2"	40%
Corrosion Resistance	Very Good
Heat Resistance	Excellent-up to 2,000°F (1093°C)

AC or DC
Reverse

FORD
TOXICITY
NUMBER
159207



Stainless Steel Milk Coolers
and Holding Tanks



Food Extruding Equipment

PROCEDURES:

Clean weld area of foreign material. A 60° bevel is used when welding parts 3/16" or heavier. DC reverse polarity is preferred. Use lowest setting possible to get a good bead contour. In fabricating, tack weld at close intervals using next smaller diameter electrode. Chip slag and stainless steel wire brush tacks before welding. Use stringer beads where possible and keep close arc gap while welding. Avoid excess heat build-up. Thin sheets may have to be shielded with **Absolute Heat Block** to avoid excessive distortion.

PART #	DIAMETER	AMPERAGE	QUANTITY
103085	3/32	40-80	1 lb.
100841	3/32	40-80	5 lb.
102304	1/8	60-120	1 lb.
100842	1/8	60-120	5 lb.

Absolute Weld 600W

**AC or DC
Reverse**

Hard Surfacing Electrode For Severe Abrasion

- Easy arc control-works well even out of position
- High deposition rate with smooth, dense deposits
- Self-releasing slag
- Weld deposits maintain their abrasion resistance, even at elevated temperatures
- Decreases operation costs by extending wear life

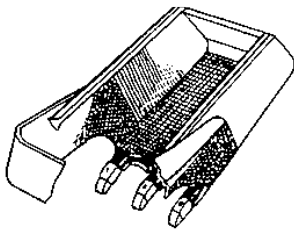
APPLICATIONS:

- Parts subjected to severe abrasion and light impact
- For surfaces that must resist abrasion combined with scaling

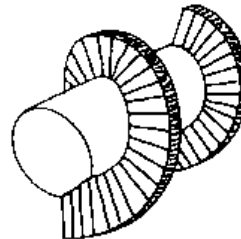
USE ON:

Equipment For Processing Coal, Rock, Soil, and Cement, Grinding Plates, Press Screws, Coal Augers, Earth Augers, Scrapers, Chains In Annealing Furnaces, Open Hearth Tools

**FORD
TOXICITY
NUMBER
159206**



Dragline Bucket



Conveyor Screw

TECHNICAL DATA:

Hardness-Rc 56-60

PROCEDURES:

All unsound metal or foreign material should be removed from the surface to be welded. An elastic cushion layer should be applied before surfacing for best results. On carbon and manganese steel use **Absolute Weld 420S**. When making the final surface, keep the electrode vertical to the work piece and maintain a short arc. Thin deposits never more than two layers thick should be used. Alternate welding area to prevent excessive local heat build-up. Allow part to cool slowly.

PART #	DIAMETER	AMPERAGE	QUANTITY
102305	5/32	100-160	1 lb.
100843	5/32	100-160	10 lb.

Welding

Absolute Weld 610W

High Alloy Electrode For Build Up And Joining Of Austenitic Manganese Steel. Extreme Impact Resistance

- Tough deposits will withstand extreme impact conditions
- Excellent weldability with very low spatter
- Welds in all positions

APPLICATIONS:

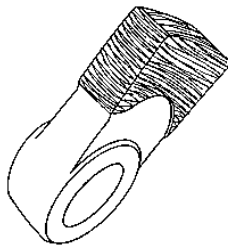
- For joining and rebuilding austenitic manganese steels and manganese steels to other steel combinations
- Designed for high impact applications
- Also excellent for use as a base for harder overlays

USE ON:

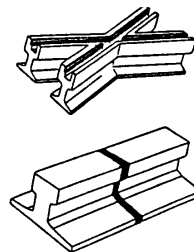
Shovel Tracks, Hammers, Roller Crushers, Switch Points, Rail Frogs

AC or DC
Reverse

FORD
TOXICITY
NUMBER
159205



Crusher Hammer repair



Railroad Switch and Track repair

TECHNICAL DATA:

Hardness-Dots as Welded-Rc 16-19

Work Hardens To Rc 48

PROCEDURES:

Use **Absolute Weld 300CG** to remove any hardened or fatigued metal from the surface.

Use either stringer or weaving techniques. Overheating should be prevented on manganese steel base metals.

Deposits work harden quickly.

PART #	DIAMETER	AMPERAGE	QUANTITY
102306	5/32	125-190	1 lb.
100844	5/32	125-190	10 lb.

VELVET SHIELD™ - PAD & BLANKETS

Soft and flexible Velvet Shield™ wraps easily around pipes, stuffs into tight spots, or drapes over glass or fabric to protect surrounding area from heat or flame with minimal heat transfer.

- Velvet Shield™ is made with a high carbon fiber fabric and is extremely fire and heat resistant.
- Provides protection from direct contact with weld spatter.
- Tough, tear-resistant material.
- Easy to clean; just shake, vacuum or blow metal particles out.
- Ideal for welding in automotive, HVAC, plumbing, auto body applications.
- Contains no fiberglass, ceramic or harmful fibers.

SPECIFICATIONS

- Continuous operating temperature to 1800°F, intermittent to 3000°F
- ASTM E84-97a test method for Surface Burning Characteristics of Building Materials by achieving the following results: Flame spread index: 7, smoke index: 4.
- Meets and exceeds all standards of NFPA-701 for flame resistant materials.



INSTRUCTIONS for USE:

- Carefully check to be sure that the areas to be protected are completely covered and sparks cannot get under the blanket.
- Check blanket for holes and tears.
- Velvet Shield™ must be one-foot away from the welding torch.
- Do not use Velvet Shield™ when wet, it will conduct heat.
- Avoid contact with flammable liquids that would ignite if exposed to sparks.
- Do not clean with water or other liquids.
- Use in well-ventilated area and avoid inhalation of harmful fumes and smoke emitted from exposure to high temperatures.

WARNING: The Velvet Shield™ should not be exposed to the primary heat and slag generated by Oxy-Fuel or Plasma cutting processes. Flame, pilot arc and cutting stream temperatures are well above 3000°F maximum rating of the Velvet Shield™ material. NOT recommended for grinding applications as metal shavings and particles are easily embedded within the fibers.

PART #	ITEM	PART #	ITEM
115595	18" x 18" Velvet Shield™ Pad	115765	6' x 6' Velvet Shield™ Blanket
115760	3' x 4' Velvet Shield™ Blanket	115766*	8' x 6' Velvet Shield™ Blanket
115761	5' x 4' Velvet Shield™ Blanket	115767*	8' x 8' Velvet Shield™ Blanket
115762	4' x 6' Velvet Shield™ Blanket	115768*	6' x 10' Velvet Shield™ Blanket
115763	5' x 5' Velvet Shield™ Blanket	115769*	8' x 10' Velvet Shield™ Blanket
115764	6' x 5' Velvet Shield™ Blanket	115770*	10' x 10' Velvet Shield™ Blanket

QTY : 1 Each

*- Denotes Non-Stock

Welding Accessories

HEAT BLOCK GEL SPRAY HEAT BARRIER

The Unique
Gel Formula Stays
Where You Spray It!!

FORD
TOXICITY
NUMBER
174022



It's a Safety Spray-It helps prevent heat and fire damage to components and surrounding materials during soldering, brazing, and welding!

It's a Timesaver-Saves time by eliminating the costly disassembly of valves and other components before soldering, brazing or welding.

It's a UZ Unique-Our UZ Unique Gelled Formula sticks to surfaces, without dripping or running off!

It's a NO MESS and no fuss product-The Clear, non-staining gel leaves no residue, to eliminate clean-up.

It's Safe Formula-A safe, non-toxic, non-corrosive, odorless formula that won't harm your skin.

PROTECTION PLUS!

- Protects painted finished surfaces from discoloration due to adjacent torch operations.
- Protects soldered joints from loosening when soldering adjacent joints.
- Protects the seals and seats in ball, dielectric and solenoid valves.
- Protects buckling or distortion of thin sheet metal during brazing or soldering.

PART #	DESCRIPTION
107109	1-16 oz. Trigger Spray Bottle
107109-6	6-16 oz. Trigger Spray Bottles

Absolute Heat Block

Heat Resistant Compound For Insulating And Positioning Parts For Welding

- Asbestos free
- Easy to mold around intricate parts
- Reusable
- Adheres to most surfaces
- Withstands temperatures to 3000°F (1648°C)
- Will not distort or shrink when heated

**FORD
TOXICITY
NUMBER
164117**

APPLICATIONS:

- Use as a heat sink to absorb heat and avoid surface discoloration on heat sensitive areas
- Use as a heat dam to prevent heat from traveling to areas that can be damaged by heat, such as o-rings, packing glands, glass, and paint
- Hold or position difficult to align parts
- Use to keep distortion down when welding on light gauge metals



PROCEDURES:

Position each of the parts to be joined in a mound of **Absolute Heat Block** large enough to support its weight. Adjust the alignment as necessary before welding. If parts need to be protected from heat, cover that area with a thin layer of **Absolute Heat Block**. For higher temperature applications or where heat is applied for a prolonged time, use a thicker coating. **Absolute Heat Block** can also be used to protect non-metallic parts along side the welding area. If moisture would be harmful to the protected area, a piece of plastic wrap should be applied first.

PART #	QUANTITY
69020	2 lb. Tub

Absolute Arc

- Specially designed igniter compound for easy and instant arc starts and restrikes
- Ends electrode sticking. Ideal for hard to start electrodes on low open circuit glass AC machines
- Assists the novice in starting an arc every time
- Helps blend stops and starts on long continuous welds
- Perfect for pin point starts when filling holes
- Allows precision contact in awkward positions
- Saves money when used on "1/2 sticks or stubs"
- Great for use on all mild steels, cast irons, and hardfacing
- Not recommended for use on stainless steel or high strength low alloy steels



PART #	QUANTITY
100847	8 oz.

Procedures:

This product is very conductive! For best results dip only the tip of the electrode (the contact area) into the compound. For perfect pin point starts, allow pre-placed compound to air dry prior to striking an arc.

Fluxes

Silver Brazing Flux

PART #	QUANTITY
100845	12 oz.

UZ Soft Solder Flux

PART #	QUANTITY
100846	4 oz.

Aluminum Solder Flux

PART #	QUANTITY
102514	4 oz.



WELDING

Welding Accessories

optiva Auto-Darkening Welding Helmet

- Designed for maintenance use for both MIG & stick welding
- Great for the serious part-time welder or maintenance professional.
- Offers full head, neck and ear coverage to protect the welder from harmful spatter.

Features

Wide variable shade range
External shade adjustment knob
Solar powered
Provides protection up to shade 16

Benefits

Shade 9-13
Infinite shade selection
Never any batteries to change
Highest level of UV/IR protection

Technical Information

Filter Dimensions	90mm x 110mm
Grinding Mode	No
Viewing Area	5.20 sq. in.
UV/IR Protection	Up to Shade 16
Solar Powered	Yes
Switching Speed (ms)	0.5 (millisecond)
Thickness	6mm
Sensors	2
Light Shade	4
Dark Shade	9 to 13
Dark to Light Delay (sec)	0.1
Water & Dust Resistant	Yes
Operating Temperature	14°F - 131°F (-10°C - 55°C)
Sensitivity Control	Fixed



WELDING

PART #	DESCRIPTION	QTY
114264	Auto-Darkening Welding Helmet	1
114265	Replacement Cover Plate*	1

*Note: Front and back of lens is protected by replaceable cover plates. We recommend keeping extra cover plates on hand.

Welding Accessories

Welding Helmet

- Lightweight-complete helmet, headgear, shade 10 passive filter and outside protective polycarbonate weigh less than 12 oz.
- Durable-Heat resistance to over 350°, withstands heavy on the job abuse, always retains shape
- Features ratchet headgear which locks in place for a precise, comfortable fit every time. Will not strip like most competitive headgear.
- Manufactured to exceed ANSI Z87.1 standards



PART # 68130

PART #	QUANTITY
68130	1 ea.

Welding Observation Shield Kit (#101459)

Includes Vinyl Lens Holder (#101649), Clear and Amber (#101756, #100861) Replacement Lenses (1 ea.)



PART #	QUANTITY
101459	1 ea.

Welding Helmet and Shield Replacement Lens (#68130 Helmet)

PART #	DESCRIPTION	QUANTITY
100861	2" x 4 1/4"	1 ea.
101756	2" x 4 1/4" Clear	1 ea.



PART # 100861



PART # 101756

Vinyl Lens Holder Only

PART #	QUANTITY
101649	1 ea.



PART # 101649

Welding Cap

- Colorful reversible caps have a wild and crazy pattern on one side and a solid color on the other
- Features two wide bands of elastic that are sewn on the sides between two layers of 100% cotton-assures a comfortable fit for most head sizes
- Caps have a 3" x 8" soft bill



PART #100863

PART #	QUANTITY
100863	1 ea.

WELDING

Welding Accessories

Sure-Fire Adjustable Torch

Self-Igniting Torch For The Professional

- **Easy to use** — Pull the trigger-it's on. Release-it's off.
- **Versatile** — Adjustable flame control and interchangeable burn tips, burns propane or MAPP® gas
- **Burntip** — Provides brazing flame
- **Lock Button** — Push down to lock flame ON when job requires both hands
- **Squeeze Trigger** — Turns on and ignites gas instantly. Dependable igniter is virtually maintenance free. Saves time and fuel.
- **Comfortable Grip** — Allows torch to be used with accessory hose as well as on any standard cylinder
- **Built-In Regulator** — Allows torch to burn in any position, even upside down
- **Cast-Aluminum Body** — Rugged and durable for years of heavy duty use

HEAT OUTPUT:

FUEL	BTU OUTPUT PER HOUR	MAX. FLAME TEMP.
Propane	10000	3460°F
MAPP®	14700	3550°F

PART #	DESCRIPTION	QUANTITY
239027	Sure-Fire AdjustableTorch Head	1 ea.



Mini Butane Torch

Butane Powered, Self-Igniting Microtorch

- Hand held or tabletop use
- Built-in self-igniting system
- Adjustable flame
- Built-in refillable fuel tank
- 2 hour run time
- Perfect for continuous heat applications
- Flame temperature-2500°F/1300°C

PART #	QUANTITY
68140	1 ea.



Ultratorch

Butane Powered Heat Tool 3 Tools In One-Soldering Iron, Flameless Heat Tool, Butane Torch

- Completely Cordless
- Most flexible alternative for field maintenance and repairs
- Makes jobs requiring maneuverability and pinpoint accuracy easier
- Operates for over 2 hours without having to refill
- Needs no special fuel-operates on standard butane fuel
- Butane not included

APPLICATIONS:

Soldering Iron

Circuit boards, TV cable systems, switch panels, television sets, meters, telephone switchboards, etc.

Heat Tool

IC boards, electrical components, solder, solder paste, shrink tubing, insulated solder preform, environmental splices, welding plastics, etc.

Butane Torch

Brazing, silver soldering, soft soldering copper tubing and pipes, loosening rusted nuts and bolts, etc.

Comes standard with metal storage/carrying case, solder tip, heat tip, shrink attachment, solder sponge, heat and torch ejectors, tool holder and spanner wrench



Butane not included

PART #	QTY.	SOLDERING HEAT	TIP TEMP.	TORCH TEMP.
239000	1 ea.	392-932°F (200-500°C)	292°F (144°C)	2372°F (1300°C)

Cassette Torch

Butane Powered, Self-Igniting Mini Torch

- Fueled by an ordinary gas lighter
- Produces flame temperatures up to 2400°F (1316°C)
- Hundreds of uses ranging from heat shrinking to soldering
- Self-igniting mechanism with a "lock on" feature
- A must for every tool kit

PART #	QUANTITY
101468	1 ea.



UZ "Bullet" Torch

Self-Igniting Butane-powered micro torch

- Produces flame temperatures up to 2400°F
- Hundreds of uses ranging from heat shrinking to soldering
- A must for every tool kit
- Self-igniting mechanism

PART #	QUANTITY
112939	1 ea.



Welding Accessories

Deluxe Welding Gloves

- Full foam lining on the palm and back of the hand
- Fully welted and sewn with Kevlar® thread
- Sewn in a gunn cut patter with a wing thumb that has a patch and reinforced thumb strap
- Made from select shoulder-split cowhide
- One piece back



PART # 100860

PART #	QUANTITY
100860	1 pr.

18" Welding Gloves

- Combines comfort, durability and added length for extra protection
- Split cowhide gloves feature a gunn cut pattern, wing thumb and one piece back
- Fully welted with a full cotton lining and foam back



PART # 100848

PART #	QUANTITY
100848	1 pr.



Chipping Hammer

PART # 101462

- No-slip wire hand grip
- Strong forged steel head
- Made of milled certified forged grade steel for strength and durability



Striker

PART # 101463

- Lightweight-easy to use
- Round file provides continuous sharp surface, for striking
- High tensile wire frame retains spring tension



Replacement Flints for Striker

PART # 101464

Cross Reference

ABSOLUTE WELD	ALLSTATE	BOWMAN	CERTANIUM	CRONATRON	CROWN	EUTECTIC	KAR PRODUCTS	LAWSON	MECHANIC'S CHOICE	MASSAU/ ROCKMOUNT	POSTLE	THERMOCOTE WELCO	ERGON
40S	11, 13FC	914, 908	70F, 87F	30F	120 FC	90 FC	Nickel Silver FC	All Steels Brazing 400		Olympia C	91FC	14, 17, 170+FC	201, 202, 271
70B	LBF, 41FC, 41		49, 83F		125, 130 FC	18 XFC, 146 X FC 3046 X FC	Brazing Alloy			Jupiter G	90FC	40FC, 15FC	205
80CB	Silfilo 0			44	Sil Cop 0	180				Venus G	82	Silfos 0	
20A	Sealcor		68C	54C	110	21FC-E				Neptune GCF	42FC	Cor Al	242
90SI	155 FC		52, 54F	40F	55FC	1020, 1601				Gemini G, CG		203FC	262
100CI	4-60 Super 8-60	880, 25270	889, 889SP	211, 2110	260	223, 2233		Cast Iron Series 200	Torque VI	Jupiter			130
110CI													
200A		980	608	510	300	2109, 2101, 3021	Alluminum	Alluminum Series 450	Torque Alluminum	Neptune A	40	26	141
300CG	Chamfer Rod	920	100, 110 MOX	110, 1100, Cronacut	204	Chamferrode, Extrode	Groove/ Cham/Cut	Chamfer Rod Series 100	Torque Gouge-Cut	Electra	250	Chamfer Arc	161
400S	Steel Arc, Monoweld	885, 25120 25140	701, 702	338	200	Beautyweld 6000	EZWeld	Mild Steel	Torque II Series 350	Tartan A	Super 35	83-88	104, 106 107
410S	Steel Arc Plus		700	321		Steelteclic				Tartan B	34ST	Steelweld	108
420S	275	990, 25180	720, 707, 770 MOX	333, 3333		680, 680CGS, 3026, Xuper 110		All Steels Series 300	Torque IV	Brutus A			100XL
500SS	252	895	711			Stainitrode D		Stainless Steel 500	Torque XII	Gemini BA			
600W	HS-7		6006	711, 771	240	Sugartec A, 5005	Abrasion II						176
610W	NIMatrix		282		235	40					Post Mang	240	192, 194



Absolute Weld

Superior Maintenance Welding Products

- **High Performance**
- **Improves Productivity**
- **Increases Efficiency**
- **Problem Solving**
- **Cost Effective**

See for yourself!



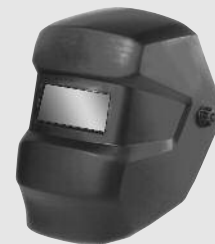
Absolute Weld 420S "The Hulk" Super Strength Electrode

For high alloy and dissimilar steels
One rod does the job of 10 specialty electrodes
Ideal for vertical-down welding and stud-removal applications



Absolute Weld 90SI "Pink Lady" High Silver Brazing Alloy

For joining ferrous and non-ferrous metals
High Silver content - 56%
Cadmium-free/Non-toxic
Special "Pink" flux coating provides excellent cleaning action on most metals and does not blacken



PART # 68130

For details about all of our Absolute Weld products, please turn to page 1149-1182.

WELDING