

Welding Rods

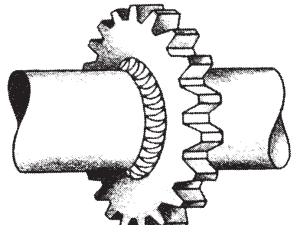
All Position Mild Steel Electrode

Postellite Series 35

Simplifies all welding applications involving mild steel and provides the maintenance welder with a tremendous degree of versatility.

- Instant strike and restrike
- Low smoke volume
- High amperage capability for deep penetration when welding through rust, paint, grease and dirt
- Outstanding on thick to thin members
- Deposits on galvanized steels with little or no burning of the surrounding galvanized coating.
- Leaves no porosity
- May be used at the lowest possible amperage to prevent burn through on thin gauge sheet metal.
- Tensile strength: 80,000 psi.; Elongation: 24%
- AC-DC reverse polarity

Part Number	Size	Recommended Amp	Color Code
6020003	3/32	40-70	Yellow Tip
6020004	1/8	70-120	Yellow Tip
6020005	5/32	110-140	Yellow Tip



Welding Rods

High Strength All Steel Electrode

Postalloy 301

Welds all types and grades of steel and steel alloys. So versatile, one electrode welds high carbon steels, medium to high alloy steels, heat treated steels, manganese, all sensitive and hard to weld steels, and all combinations of dissimilar steels, plus stainless steels.

- AC-DC reverse polarity
- Crack-free non-porous deposits
- 120,000 psi tensile strength work hardens to 180,000 psi.
- No undercutting
- All position
- Welds on contact
- Withstands freezing temperatures
- General applications: forklifts, buckets, chain link furnaces, automotive springs, drive shafts, fifth wheels, brake drums, tools dies, grader and dozer blades, gears.

Part Number	Size	Recommended Amp	Color Code
6050003	3/32	60-90	Orange Tip
6050004	1/8	90-120	Orange Tip
6050005	5/32	110-160	Orange Tip



Welding Rods

Cast Iron Electrode

Postalloy Series 50

- Welds all grades and types of cast iron.
- AC-DC reverse polarity.
- Fully machinable.
- Ultimate in tensile strength; Tensile strength: 75,000 psi.
- Welds all Positions
- No slag entrapment - weld pass on pass, no chipping of slag.
- For all cast iron welding including meehanite, malleable iron, gray iron, ductile iron & steel or stainless to cast iron.
- Non-rusting deposits
- No spatter
- Hardness: 200 SHN
- General Applications. Valve seats, engine blocks, cylinder heads, water pump housings, retractable wheels, transmission cases, starter housings, manifolds, flanges, conveyor parts, gear teeth, levers.

Part Number	Size	Recommended Amp	Color Code	
6000003	3/32	50-80	Blue Tip	
6000004	1/8	80-110	Blue Tip	
6000005	5/32	110-140	Blue Tip	

Welding Rods

All Aluminum Electrode

Postalloy Series 40

- For welding all grades and types of aluminum.
- No pre-heating required except on heavy sections only.
- Outstanding arc stability.
- No undercutting.
- Low spatter and free of porosity
- Rapid deposition.
- High corrosion resistance.
- Helps in making aluminum welds fast and easy.
- Tensile Strength: 34,000 psi.
- DC Reverse Polarity only.
- General Applications: Foundry defects, machining errors, food processing equipment, truck and trailer repairs, foreign car engine blocks, irrigation pipes, cracked housings and castings.

Part Number	Size	Recommended Amp	Color Code	
6010004	1/8	80-130	Black Tip	
6010005	5/32	105-160	Black Tip	


Welding Rods

Stainless Steel Electrode

Postalloy Series 38

Excellent all-position electrode for “all around” welding of 200, 300, 400 and 500 series stainless steels. Excellent for overlaying and joining low alloy steels where corrosion resistance is required,

- May be used at lower than normal current settings to reduce heat discoloration and prevent burn through.
- Provides an excellent machinable wear resistant overlay.
- Has good restrike characteristics with easier slag removal and less spatter.
- Tensile Strength: 95,000 psi.
- Hardness: 185 BHN
- Elongation: 35%
- AC or DC Reverse Polarity.
- Machinable with carbide tools.
- General Applications: Shaft buildup, stainless steel piping, heat exchangers, disposal mixers, food processing equipment, hospital equipment, food and brewery mixers and containers, cooling towers, flanges

Part Number	Size	Recommended Amp	Color Code	
6030003	3/32	40-70	Orange Tip	
6030004	1/8	80-120	Orange Tip	
6030005	5/32	120-160	Orange Tip	

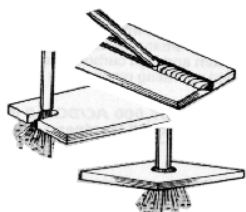
Welding Rods

Gouging Rod

Postalloy Series 250

Removes unwanted metal with standard AC or DC power sources. Does not require supplementary gas, compressed air or special electrode holders. POSTALLOY SERIES 250 produces an intense, highly concentrated blowing action which virtually blasts molten metal and slag out of its path.

- For chamfering, gouging, piercing and grooving all metals, including cast iron, stainless and aluminum,
- Self-starting characteristics enables the welder to pre-place the rod in exact spot where metal is to be removed without instantaneous arcing.
- Leaves a clean, scale free, carbon free surface.
- Removes metal up to 10 times faster than grinding or chipping.
- AC or DC Straight Polarity.
- General Applications: Veeing out cracks prior to welding, gouging out old or defective weld metal, removes frozen bushings, cuts stainless steel fast, pierces holes clear of broken bolts.

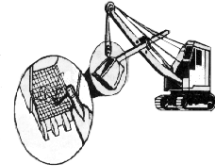
Part Number	Size	Recommended Amp	Color Code	
6040004	1/8	250-400	Lavender Tip	
6040005	5/32	300-450	Lavender Tip	

Welding Rod Hardfacing Electrode Postalloy Series 214

High alloy electrode containing carbon, chromium and molybdenum which combine to form extremely hard carbides. Deposits take on high polish in service, producing excellent frictional or sliding metal to metal wear properties.

- High hardness overlay.
- Abrasion, heat, corrosion and impact resistant superior weldability.
- Good out-of-position characteristics on either AC or DC
- Fast, smooth, ripple-free deposits, easy slag removal
- For stainless steels, carbon and alloy steels, and cast irons.
- Rockwell Hardness up to 60 Rc
- AC- DC straight or reverse
- General Applications: Farm implements, asphalt and concrete mixer paddles, road ripper teeth, ditch digger teeth, conveyor screws, dredge pump impellers, dust fan blades, crushing and pulverizing tools, grader blades feed screws.

Part Number	Size	Recommended Amp	Color Code
6150004	1/8	90-130	Orange Tip
6150005	5/32	100-150	Orange Tip
6150006	3/16	140-190	Orange Tip



Chip Hammer


Part Number	Description
7000400	Cone and Chisel Style



Brazing Rods High Strength Brazing Alloy Postalloy Series 91FC

Three times stronger than ordinary mild steels, and twice as strong as conventional brazing alloys. Ideal for joining and repairing any steel, including many high strength steels. POSTALLOY 91FC flows as freely as silver brazing alloys. The excellent capillary attraction forces the alloy into the tightest joints.


- Penetrates through any rust, paint, or dirt to produce a solid-porosity freebond.
- Resistant to moisture and chipping.
- Can be bent without coating popping off.
- Little or no finishing required.
- Tensile Strength: 105,000 psi.
- Bonding Temperature: 1400 - 1600 F (760) - 871 C)
- Hardness: 150 SHN
- General Applications: Repairing broken drills, milling cutters and reamers. For brazing tungsten carbide tipped tools. For close fitting joints, such as tubing, framework and piping. Ideal for chrome moly tubing, tailpipes, oil pans, motor guards, carts, ramps.

Part Number	Size	Color Code	
7010003	3/32	Blue Flux Coating	
7010004	1/8	Blue Flux Coating	

All Purpose Brazing Alloy Postalloy Series 90FC

POSTALLOY SERIES 90FC is an extraordinary bronze brazing alloy that performs extremely well on base metals that have always been considered "difficult" - cast iron, sheet metal, galvanized and copper alloys. The flux coating on POSTALLOY 90FC will penetrate through any rust, paint or dirt to produce a solid porosity freebond.

- Outstanding wetting action on steels, cast iron and coppers.
- Triple deoxidized to prevent fuming.
- All purpose formula - use on all ferrous and non-ferrous metals except white metals.
- Cast iron - its low bonding temperature, together with its alloy formation and powerful flux coating, allow it to "wet" the surface without overheating the base metal .
- Galvanized steel- the low working temperature reduces the problem of zinc burn-off.
- Thin sheet metal the lower heat input reduces warpage, distortion and burn through .
- Tensile Strength: 65,000 psi.
- Bonding Temperature: 1400 - 1600F (760 - 871C)
- Hardness: 95 BHN

Part Number	Size	Color Code	
7020003	3/32	Yellow Flux Coating	
7020004	1/8	Yellow Flux Coating	


Brazing Rods

Aluminum Brazing Alloy

Postalloy Series 42


For brazing all aluminum alloys. Superior capillary attraction draws FOSTALLOY 700 into the tightest joints, creating uniform fillets that need no grinding or finishing.

- Lower temperature than melting point of aluminum.
- Conforms to the most complicated contours.
- Deposits a smooth, color matched weld.
- Corrosion Resistance: Equal to base metal
- Excellent for aluminum castings or thin sheet. Use with -Oxy-Acetylene or Tig Torch.
- Almost twice as strong as common aluminum.
- Thin-flowing and lowest temperature.
- Tensile Strength: 34, 000 psi .
- Bonding Temperature: 1070" F. (576 C.).
- General Applications: Duct work, air conditioning, window frames, chutes, housings, cylinder heads, castings, machine guards.

Part Number	Size	Color Code	
7000003	3/32	Yellow Tip	

Aluminum Brazing Flux


- Specially formulated for use with POSTALLOY 42 Series Aluminum Brazing Alloy only.

Part Number	Size	
7030001	1/4 lb. container	

Shield

Shield is a heat resistant putty-form material that can be used as a blanket or cover to protect parts from intense welding heat.


- Will not burn, crack melt or deform during welding.
- Can be used as a mold or fixture to hold parts during welding
- Especially effective as a jig-holding white metal.

Part Number	Size	
7040001	2 lb. container	

E-Z Solder

Silver Bearing Solder Paste


- 5 times stronger than common solders
- Low temperature - 430°F
- High tensile strength 16,000 PSI
- Joins all ferrous and non ferrous metals (except white metals)
- Complies with pure food laws
- Does not contain lead, zinc, cadmium antimony or any metal which corrodes easily

Part Number	Size	
5140007	7.1 gram syringe	

E-Z Solder

Copper Bearing Solder Paste


- Specially formulated for use with copper, brass, nickel and bronze
- Low temperature - 430°F
- No additional flux needed
- Repairs existing joints without disassembly
- Joins all ferrous and non ferrous metals (except white metals)
- Complies with pure food laws
- Does not contain lead, cadmium or antimony

Part Number	Size	
5140014	14 gram syringe	

E-Z Solder


Aluminum Bearing Solder Paste

- Aluminum to aluminum and aluminum to other metals
- Melts at 395°F far below the melting point of aluminum
- No additional flux needed
- Deposits have perfect color match and are smooth and porosity free
- Joins all ferrous and non ferrous metals (except white metals)

Part Number	Size	
5140021	7.1 gram syringe	

Silver Bearing Solder


- 500% stronger than common solders
- Low temperature - 425°F
- High tensile strength 16,000 PSI
- Joins all ferrous and non ferrous metals (except white metals)
- Complies with pure food laws
- Does not contain lead, zinc, cadmium antimony or any metal which corrodes easily

Part Number	Size	
5140202	1/16 x 108"	

Wire Solder


40% Tin 60% Lead Alloy

- Works at lower temperatures 360° to 460°F
- Makes more joints per roll
- Tensile strength to 4,800 PSI

Part Number	Size	Description	Application	
5140101	16 oz.	Acid Flux Core	Plumbing	
5140201	16 oz.	Rosin Flux Core	Electrical	


Soldering Paste Flux

- Eliminates surface tension
- Removes oxidation
- Use on: Brass/copper sweat fittings, galvanized/black iron pipe fittings, tin plated aluminum fittings

Part Number	Size	
5140004	4 oz.	
5140016	16 oz.	

Micro- Jet Torch

- Piezo electronic self-starting ignition system with safety lock
- Wind proof flame and waterproof ignition system perfect for outdoor use
- Flame temperature to 2400°F
- Rechargeable butane lighter fuel cell
- Ideal for electronic, plumbing, automotive, soldering applications

Part Number	
0031904	


Ultra-torch

- Butane -powered, portable soldering iron and flameless heat tool
- Self-igniting push button system
- Comes complete with soldering and heat tip, heat shrink attachment
- Operating capacity 4 hours max per gas filling
- Temperature range - when soldering (482- 932°F), when heat shrinking 1202°F

Part Number	
0032001	


Micro-Torch

- Self-igniting push button system
- Flame control adjusts for longer broad flame or short pinpoint flame
- Flame temperature to 2400°F
- Rechargeable butane lighter fuel cell
- Ideal for electronic, plumbing, automotive, soldering applications

Part Number	
0031906	


Surefire Propane Torch

- Highest quality portable torch available
- Instant self-igniting torch
- Flame control adjusts to meet any job
- uses regular propane or MAPP gas
- Highest heat output of any portable torch, over 3500°F flame
- 1/2 inch stainless steel burn tube
- Built in pressure regulator
- Ignites and burns upside down

Part Number	
0031907	

Striker

- Single flint striker
- Cartridge holding flint locks exactly into position

Part Number	Description	
7000401	Striker	
7000402	Replacement Flints	