

# Welding Products



# Welding Products

## Mild Steel Electrodes

**Product Shortname:** GP

### PH28 E4313A, E6013, AC 50V / DC-

A universal electrode which has medium-heavy rutile coating, which yields a fairly rapid solidifying slag. It is very easy to apply in the vertical up and overhead positions, where a short arc length is beneficial. The weld appearance is very good for all positions. PH 28 has excellent X-Ray properties.

Size (mm)	Amps Range	Pkt (kg)	Pkt/Ctn	Rods/Pkt
2.5	70-100	2.5	5	159
3.2	85-135	5.0	3	164
4.0	130-170	5.0	3	104
5.0	190-230	5.0	3	53

### PH48A E4313A, E6013, AC 45V OR DC-

This is a conventional type of electrode which welds in all positions. It is good for low open circuit voltage machines and has easy starting and restarting properties. In addition it exhibits very quiet running with reasonably smooth deposits. A very useful electrode for welding galvanised steel.

Size (mm)	Amps Range	Pkt (kg)	Pkt/Ctn	Rods/Pkt
2.5	70-100	2.5	5	158
3.2	90-135	5.0	3	158
4.0	130-180	5.0	3	105

### PH68 E4313A, E6013, AC 50V OR DC-

This medium-heavy coated rutile electrode produces a rapid freezing slag. Its large droplet type of arc makes it ideal for poor fitting work or where large gaps have to be bridged. It is perfect for site work because with one current setting welds can be done in all positions. Excellent for galvanised steel.

Size (mm)	Amps Range	Pkt (kg)	Pkt/Ctn	Rods/Pkt
2.5	60-95	2.5	5	172
3.2	70-125	5.0	3	163
4.0	130-170	5.0	3	109
5.0	170-240	5.0	3	72

### PH7024 E4924A, E7024, AC 50V OR DC-

The PH 7024 is a heavy coated rutile contact type electrode developed for high speed welding of mild steel in flat and horizontal positions using AC or DC straight polarity. The iron powder content in the flux coating gives high efficiency combined with excellent mechanical properties.

Size (mm)	Amps Range	Pkt (kg)	Pkt/Ctn	Rods/Pkt
2.5	90-140	2.5	5	97
3.2	130-160	5.0	3	91
4.0	180-210	5.0	3	54
5.0	260-320	5.0	3	32

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# Welding Products

## Low Hydrogen Electrodes

**Product Shortname:** LOHY

### PH56S E4916AU H5, E7016-H8, AC 70V OR DC+

An all-positional low hydrogen electrode (not vertical down) which deposits very pure weld metal with exceptional mechanical and X-ray properties. For use on mild, unalloyed micro alloyed and low alloy steels, also for steels to LT 40 spec. Used with a short arc and reasonably slow travel speeds. Can be used with DC- for root passes if preferred.

Size (mm)	Amps Range	Pkt (kg)	Pkt/Ctn	Rods/Pkt
2.5	60-100	2.2	5	131
3.2	85-140	5.0	3	151
4.0	100-180	5.0	3	99

### PH16TC E4916-1AU H10, E7016-1 H8, AC 45 (2.5, 3.2) AC 55 (4.0) DC+

PH16TC is a smooth running, easy to use, all position twin coated, low hydrogen electrode, for mild and low alloy steel applications. Provides high quality notch tough weld metal. Easy re-strike. Can be operated on low OCV AC machines.

Size (mm)	Amps Range	Pkt (kg)	Pkt/Ctn	Rods/Pkt
2.5	60-90	2.5	5	147
3.2	90-135	5.0	3	148
4.0	140-190	5.0	3	90

### PH77 E4918-1AU H5, E7018-1 H8, AC 70V OR DC+

An iron powder low hydrogen electrode for welding steel, low alloy, high tensile steels and for steels to LT 40 spec in all positions. The metal recovery being approx 115% and the deposited welds are first class for X-ray. PH77 is welded with a short arc and due to its higher current characteristics welding is much faster than normal.

Size (mm)	Amps Range	Pkt (kg)	Pkt/Ctn	Rods/Pkt
2.5	60-105	2.2	5	107
3.2	90-145	5.0	3	126
4.0	140-200	5.0	3	87
5.0	180-300	5.0	3	48

### PHC6H E4928AU H5, E7028 H4, AC 70V OR DC+

This is a 195% efficiency iron powder low hydrogen type electrode for clean smooth welds in the downhand position on heavy plate and joints in restraint. It has excellent mechanical and X-ray properties and is very suited for welds in narrow Vee joints. The zircon basic coating leaves a very readily removable slag.

Size (mm)	Amps Range	Pkt (kg)	Pkt/Ctn	Rods/Pkt
4.0	200-230	5.0	3	42
5.0	260-340	5.0	3	28

### PH118 E7618-GA H5, E11018-G H4, AC 70V OR DC+

Type PH118 is designed for welding low alloy high strength steels with tensiles up to 120,000 psi, ie: Bisalloy 80, Sumiten 80S, T1, and 4140. In addition 118 is ideal for many repair welds on high strength steels, ie: forklift prongs, axles shafts etc. ABS Approved. These electrodes must be kept dry.

Size (mm)	Amps Range	Pkt (kg)	Pkt/Ctn	Rods/Pkt
3.2	90-140	5.0	3	122
4.0	110-180	5.0	3	86

# Welding Products

## Hard Facing Electrodes

### Product Shortname: PHFA

#### PH400 1435-A4, E Fe2, AC 50V OR DC+/-

Tough chromium-manganese alloy used for worn rails, shafts, grouser plates, shovel pads, track links, idler wheels, dragline pins etc. Typical undiluted hardness 38Rc.

Size (mm)	Amps Range	Pkt (kg)	Pkt/Ctn	Rods/Pkt
3.2	95-145	5.0	5	127
4.0	125-200	5.0	3	68

#### PH600 1855-A4, E Fe3, AC 50V OR DC+/-

Versatile, low cost hard facing deposit for straight carbon, low alloy or manganese steel. The self hardening deposit has high abrasion resistance. Deposit is malleable and forgeable when hot. Typical undiluted hardness 59Rc.

Size (mm)	Amps Range	Pkt (kg)	Pkt/Ctn	Rods/Pkt
3.2	95-145	5.0	3	133
4.0	125-180	5.0	3	67
5.0	190-280	5.0	3	45

#### PH700 2360-A4, AC 50V or DC+/-

PH 700 is a high carbon-chrome type for impact and severe abrasion and has good resistance to scaling and corrosion in high temperatures. It can be deposited directly on to mild steel, low alloy steel or austenitic manganese steel. However, when the base metal is hardenable or high alloy, a buffer layer of PH 56S, PH 77 or the stainless alloy Elite RSP may be necessary. Typical undiluted hardness 62Rc.

Size (mm)	Amps Range	Pkt (kg)	Pkt/Ctn	Rods/Pkt
3.2	110-130	5.0	3	86
4.0	130-180	5.0	3	57

## Stainless Steel Electrodes

### Product Shortname: STS

#### RM316LC E316L-17, AC 70V OR DC+

PH RM316LC is a low carbon electrode for welding Molybdenum bearing 316 and 316L steels. The weld metal has superior resistance to pitting and most types of corrosion. Also suitable for the general purpose welding of 301, 302, 304 and 304L stainless steels. Weld with a short arc.

Size (mm)	Amps Range	Pkt (kg)	Pkt/Ctn	Rods/Pkt
2.5	40-80	2.5	4	141
3.2	60-120	2.5	4	76
4.0	90-140	2.5	4	51

#### PHRS309LC E309L-17, AC 70V or DC+

PH RS309LC is a rutile coated all position electrode for welding stainless steel containing 22-25% Cr and 12-14% Ni. RS309LC may be used for welding dissimilar metals, eg: stainless steel type 18/8 to mild steel. Also used for welding the buffer layer of 18/8 clad steels, of which the final run is made with PH RS308LC.

Size (mm)	Amps Range	Pkt (kg)	Pkt/Ctn	Rods/Pkt
2.5	45-70	2.5	4	130
3.2	70-110	2.5	4	78

# Welding Products

## Elite Range for Repairs & Maintenance

**Product Shortname:** CAST/PROB

### **SUPERCAST NI/FE**

#### **AWS A5. 15:E NiFe-CI, AC 45 or DC+/-**

Supercast Ni Fe is a basic, graphite-coated AC/DC electrode for the higher strength welding of cast irons. It is characterised by a soft, smooth arc with low penetration and spatter levels on both AC and DC power sources. Ease of striking is a feature of Supercast Ni Fe.

Size (mm)	Amps Range	Pkt (kg)	Pkt/Ctn	Rods/Pkt
4.0	80-130	2.5	6	62

### **WWHi Ten 8 AC 50V or DC+**

Was developed to give very high strengths at elevated temperatures combined with corrosion resistance, high toughness and wear resistance. The special coating gives porosity free, dense deposits with little or no splatter. Welds are deposited at highest possible speed with least amount of base metal heat, using very low amperages. Tensile 825 MPa with high anti-cracking properties.

Size (mm)	Amps Range	Pkt (kg)	Pkt/Ctn	Rods/Pkt
2.5	40-75	2.5	4	151
3.2	75-125	2.5	4	81

### **WWRSP AC 75V OR DC+**

This deposits a weld metal of an austenitic-ferritic structure which is highly resistant to cracking. Hence its use where combinations of metals could cause cracks by other methods. WW RSP is also used to weld creep resistant steel such as 5% Cr-0.5% Mo where no post work heat treatment can be applied. For joining mild to stainless steel. Very good for repair welding.

Size (mm)	Amps Range	Pkt (kg)	Pkt/Ctn	Rods/Pkt
2.5	40-75	2.5	4	143
3.2	60-100	2.5	4	78
4.0	90-140	2.5	4	51

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# Welding Products

## CO2 Mig Wire

**Product Shortname:** MIGW

### Vortex AWS A5.18: ER70S-6

Weldwell Vortex MIG wire is a precision, level layer wound, copper coated steel wire, suitable for welding in all positions. Under satisfactory conditions the weld metal will contain less than 4 ml of hydrogen per 100g of weld metal, and is able to produce welds with excellent x-ray qualities. The thin copper coating ensures good electrical conductivity, reduces friction during welding and minimises corrosion of the wire. Shielding Gas – CO<sub>2</sub>, Argon/CO<sub>2</sub>/Polarity: DC+.

Size (mm)	Pkt Size (kg)	Sold per
0.8	15	spl
0.9	15	spl
1.0	15	spl
1.2	15	spl

### Elite AWS A5.18: ER70S-6

Weldwell Elite Mig wire is copper coated, precision layer wound on 5 and 15kg plastic spools. Shielding Gas - CO<sub>2</sub>, Argon/CO<sub>2</sub>/Polarity DC+

Size (mm)	Pkt Size (kg)	Sold per
0.6	5	spl
0.8	5	spl
0.8	15	spl
0.9	5	spl
0.9	15	spl
1.0	15	spl
1.2	15	spl

## Gas Shielded Fluxcored Mig Wire

**Product Shortname:** FCWI

### HOBART 71T AWS A5.20, Class E71T-1

Hobart 71T is an all position fluxcored wire designed to be used with 100% CO<sub>2</sub>. It can be used on all position welds with both single and multiple pass welds on mild and some low alloy steels. Shielding Gas - 100% CO<sub>2</sub>/Polarity DC+.

Size (mm)	Pkt Size (kg)	Sold per
1.2	15	spl
1.6	15	spl

### VORTEX 71T AWS A5.20, Class E71T-1

Vortex 71T is an all position fluxcored wire designed to be used with 100% CO<sub>2</sub>. It can be used on all position welds with both single and multiple pass welds on mild and some low alloy steels. Shielding Gas - 100% CO<sub>2</sub>/Polarity DC+.

Size (mm)	Pkt Size (kg)	Sold per
1.2	15	spl

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# Welding Products

## Metalcored Mig Wire

**Product Shortname:** FCWI

### Metalloy 76 AWS E70C-6M H4

Metalloy 76 has superior operator appeal due to almost non-existent spatter. It also produces essentially slag-free welds and offers relatively low fume levels, good penetration, low hydrogen levels, and 94-97% efficiency. Recommended for single and multiple pass welding in all position. (Positional welding possible with short arc or pulse mode only.)

Shielding Gas – 75-95% Ar/Bal CO2/Polarity: DC+.

Size (mm)	Pkt Size (kg)	Sold per
1.2	15	spl

## Seismic Rated Mig Wire

**Product Shortname:** FCWI

### Fabco Hornet AWS A5.20 Class E71T-1C H8, E71T-1M H8, E71T-9C H8, E71T-9M H8

Fabco Hornet is an all position tubular flux cored wire designed to be used with CO2 or mixed gas shielding, for general purpose fabrication where penetration requirements are stringent. The wire has good weldability, good impact strength at low temperatures, low spatter levels and easy slag removal. Conforms to strict seismic test requirements.

Shielding Gas – 100% CO2 or 75% Ar/25% CO2/Polarity: DC+.

Size (mm)	Pkt Size (kg)	Sold per
1.2	15	spl
1.6	15	spl

### Fabshield XLR-8 AWS A5.20, Class E71T-8JD H8

Fabshield XLR-8 has been specifically designed for the demanding application of structural steel erection. This outstanding self-shielded, fluxcored wire produces a stable arc within a wide range of parameters. Designed to be used with constant voltage (CV) power sources. Usable under AWS D1.8 for use on Demand Critical Welds. Low Hydrogen Weld Deposit. For use on structural steel erection, heavy equipment repair, bridge construction, ship and barge construction. Shielding Gas – None/Polarity:DC-

Size (mm)	Pkt Size (kg)	Sold per
1.6	15	spl
1.8	15	spl

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# Welding Products

## Self Shielded Fluxcored Mig Wire

**Product Shortname:** FCWI

### **FABSHIELD 21B**

#### **AWS A5.20, Class E71T-11**

Fabshield 21B is a general purpose self-shielded fluxcored wire designed for single or multi-pass welding of thin gauge to 19mm thick mild or galvanised steels. Great for welding fillet or lap welds, this all position wire has high operator appeal, producing smooth spray-like arc transfer with low spatter levels, excellent weld bead appearance, and easy to remove slag. For use on machine parts, tanks, light structurals and other general fabrication.

Shielding Gas - None/Polarity DC-.

Size (mm)	Pkt Size (kg)	Sold per
1.2	4.5	spl
1.2	15	spl
1.7	15	spl

### **FABSHIELD 23 AWS A5. 20, Class E71T-GS**

Fabshield 23 is a general purpose self-shielded tubular wire that is designed for welding thin gauge mild or galvanised steel. Suitable for single-pass applications, especially for fillet and lap welds Fabshield 23 produces a smooth spray arc type of transfer with good wetting action. Great for welding outdoors or in drafty conditions, this all-position wire also provides very low spatter levels, resulting in a weld bead that is excellent in appearance. For use on prefab building fabrication, tanks, ornamental iron and general fabrication.

Shielding Gas - None/Polarity DC-.

Size (mm)	Pkt Size (kg)	Sold per
0.8	0.9	spl
0.9	0.9	spl

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# Welding Products

## Petrol Engine Driven Generator Welders

**Product Shortname: MACH**

### Miller Trailblazer 302 EFI

Engine driven welder generator with Kohler 25 HP at 3600 RPM. Welding processes are Mig, Stick, Flux-cored Mig, DC Tig, Carbon-Arc Gouging. Trailblazer Series offers the only 2-generator system, one for welding, and one for generating power, meaning no interaction between tools and the welding arc, and it has the strongest generator power while welding. NEW! Electronic Fuel Injection (EFI) Benefits vs Carburettor Models. 12% to 27% better fuel economy! Reduced emissions - 33% lower HC + Nox levels and 27% lower CO! (EPA 1000 Hour Certification). Easy starting in all climates with no choke required. Elimination of carburettor icing. Better high-altitude performance (electric fuel pump is recommended). EFI is more reliable when using equipment infrequently. 12,000 watts of generator power. Fully enclosed case reduces sound levels and protects the engine. The unit has a 45L fuel tank. \*



### Miller Bobcat 250

Engine driven welder generator with Kohler 23 HP engine. Welding processes are Mig, Stick, Flux-cored Mig, DC Tig, Carbon-Arc Gouging. The fully enclosed case provides reduced sound levels (1/3 less noise than previous models) - and protects the engine. \*



## Multi Process Power Source

### Miller XMT350 CCCV Inverter

Inverter based DC Constant Current / Constant Voltage power source. Multi-purpose power source featuring Superior Pulsed Mig Welding Capabilities, Auto-Line, Wind Tunnel Technology and Lift-Arc. This unit needs an Optima Control to enable the pulse mig output. \*



\* For full information contact your nearest trade centre.

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# Welding Products

## DC Tig / Stick Machine

**Product Shortname:** MACH

### Miller Maxstar 200DX

Inverter based DC Constant Current tig / stick welding power source with Auto-Line, HF arc starting and Lift-Arc start. The DX model provides features allowing greater control such as pulse on/off, pulse frequency, peak % time, background amperage, initial slope time, etc. \*



## AC / DC Tig / Stick Machine

**Product Shortname:** MACH

### Miller Dynasty 200DX

Inverter based AC/DC Constant Current tig / pulsed tig / stick welding power source with Auto-Line providing installation flexibility to the user, fan on demand, lift-arc. The 200DXBL provides High Frequency Arc Starter for non-contact arc initiation. \*



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# Welding Products

## Bernard Mig Guns

**Product Shortname:** MISM

### Bernard 4312E Y-Type Gun

Duty Cycle 300 Amp @ 100% CO2  
Cable Length 4 metre  
Feeder Fitting Euro



### Bernard 4412E Z-Type Gun

Duty Cycle 400 Amp @ 100% CO2  
Cable Length 4 metre  
Feeder Fitting Euro



## Gas Equipment

**Product Shortname:** GASM

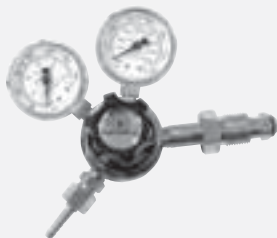
### Gemini Gas Kit NDCW-7225

Gemini Gas Kit complete with Standard Torch. Includes Flashback arrestors. Industry compatible fittings. The practical choice for industry, trade, rural and domestic applications. Complete with all parts required for brazing, fusion welding, silver soldering and oxy cutting (gas bottles not included). Housed in a sturdy plastic carry case.



### Regulators

Weldwell Elite Oxygen Regulator  
Weldwell Elite Acetylene Regulator  
Weldwell Elite Propane Regulator  
Weldwell Elite Single Flow Argon Regulator  
Weldwell Elite Twin Flow Argon Regulator  
Dragon CO2 Flow Regulator DR60



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# Welding Products

## Safety

**Product Shortname:** SAFM

### WH330 Flip Up Welding Helmet

Lightweight, for electric or arc welding. 108mm x 51mm lens.  
Supplied with Shade # 11 lens.



### Miller Digital Elite Welding Helmet

Miller Digital Elite: Miller - the name you can trust in digital welding helmets. Auto-Off (manual on), Grind Mode, Cut Mode and X-Mode. Largest view - 30% larger window. Four independent arc sensors. Lens speed - 1/20,000 second. Variable shade No 8-13 and light state No 3. (Digital Elite offers shades No 5-8 in Cut Mode). Excellent low-amperage TIG rating (5 amps). Includes magnifying lens holder.



### Miller Digital Elite Welding Helmet with Graphics

As for the Digital Elite but including graphics.



### Sperian Series 3000 Welders Mask

Lightweight silicon construction and impressive features make the 3000 half mask one of the most comfortable, user-friendly half mask air purifying respirators.



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# Welding Products

## Mig Machine

**Product Shortname: MACH**

### Steadymig 322 complete with Gun and Regulator

Power source and 4WD wire feeder provides a complete package capable of feeding 0.6-1.2mm diameter gas shielded and fluxcored wires. The power source offers very good welding characteristics with the choice of 2 inductance tappings and 21 voltage adjustments - 7 coarse and 3 fine - and is fitted with digital meters for easy reference of operating parameters. Comes complete with separate 4 roll wire feeder, 350 amp 3.7m Tregaskiss mig gun, gas regulator, earth lead and clamp, wheels and bottle rack.



### Steadymig 402 complete with Gun and Regulator

Power source and 4WD wire feeder provides a complete package capable of feeding 0.6-1.6mm diameter gas shielded and fluxcored wires. The power source offers very good welding characteristics with the choice of 2 inductance tappings and 24 voltage adjustments - 6 coarse and 4 fine - and is fitted with digital meters for easy reference of operating parameters. Comes complete with separate 4 roll wire feeder, 400 amp 3.7m Tregaskiss mig gun, gas regulator, earth lead and clamp, wheels and bottle rack.



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