



Austmig ES6

CLASSIFICATION:

- > AS/NZS 14341-B - G 49A 3U C/M S6
- > AWS A5.18: ER70S-6

DESCRIPTION:

> Copper coated, low carbon steel MIG wire specifically formulated for optimum performance under CO₂ and Ar/CO₂ mixed gases.

TYPICAL APPLICATIONS:

Suitable for welding mild and medium strength steels. Ideal for positional welding of sheet steel and steel pipes and tubes where the high silicon content promotes smooth even weld beads with excellent edge wetting and contour.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	S	P	Fe
0.1	1.45	0.88	0.02	0.022	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Gas Type	CO ₂	Ar+18% CO ₂
Yield Stress	462 Mpa	450 Mpa
Tensile Strength	570 Mpa	560 Mpa
Elongation	27%	27%
CVN Impact Values	96J @ -30°C	86J @ -30°C

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
0.6	5kg Spool	ES606M5KG
	15kg Spool	ES606S
0.8	5kg Spool	ES608M5KG
	15kg Spool	ES608S
0.9	5kg Spool	ES609M5KG
	15kg Spool	ES609S
1.0	15kg Spool	ES610S
1.2	15kg Spool	ES612S
1.6	15kg Spool	ES616S

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
0.6, 0.8, 0.9, 1.0, 1.2 & 1.6 (15kg)	1,080



Austmig ESD2

CLASSIFICATION:

- > AS/NZS 14341 - B-G 55A 3U C/M G4M31
- > AWS A5.28: ER80S-D2

DESCRIPTION:

> Copper coated, all positional low alloy wire used for welding medium to high strength steels, particularly where service temperatures up to 500°C are encountered.

TYPICAL APPLICATIONS:

Structural welding of sheet and plate steel (galvanised or otherwise) and tubular sections, including trailers, duct work, hoppers and storage tanks.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	Mo	Fe
0.08	1.84	0.71	0.51	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Gas Type	Ar+18% CO ₂	CO ₂
Yield Stress	569 Mpa	562 MPa
Tensile Strength	662 Mpa	675 MPa
Elongation	25%	24%
CVN Impact Values	57J @ -30°C	81J @ -30°C

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
0.9	15kg Spool	ESD209S
1.2	15kg Spool	ESD212S

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
0.9 & 1.2	1,080



Austmig NiCrMo

CLASSIFICATION:

- > AS/NZS 16834-B - G 78A 5U M21 G
- > AWS A5.28: ER110S-G

DESCRIPTION:

> Copper coated, low alloy solid wire suitable for all positional welding of high strength steels using Ar/CO₂ mixed gases.

TYPICAL APPLICATIONS:

Used for full strength welding of quenched and tempered structural steels of 760 MPa tensile class, such as USS-T1, Welten 80, N-A-XTRA and Bisplate 80.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	Ni	Cr	Mo	V	Fe
0.09	1.59	0.54	1.45	0.31	0.23	0.09	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Gas Type	Ar+18% CO ₂
Yield Stress	770 Mpa
Tensile Strength	880 Mpa
Elongation	18%
CVN Impact Values	68J @ -50 °C

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
0.9	15kg Spool	MNICRMO09S
1.2	15kg Spool	MNICRMO12S

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
0.9 & 1.2	1,080



Austmig 5183

CLASSIFICATION:

- > AS/NZS ISO 18273 - S Al 5183
- > AWS A5.10: ER5183

DESCRIPTION:

> Precision layer wound aluminium wire alloyed with Mg, Mn and Cr. Double shaved for superb feedability.

> The Austmig 5183 can achieve higher tensile strength in the as welded condition of alloy 5083, which the filler alloy 5356 will generally fail.

TYPICAL APPLICATIONS:

Recommended for welding 5083 type material in the annealed condition, particularly for low temperature applications where good ductility and toughness are required such as cryogenic plants and boat building.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al
0.4	0.4	0.1	0.5 - 1.0	4.3 - 5.2	0.05 - 0.25	0.25	0.15	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Gas Type	Ar
Yield Stress	110 Mpa
Tensile Strength	240 Mpa
Elongation	17%

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
1.2	6kg Spool	M518312S
1.6	6kg Spool	M518316S

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
1.2 & 1.6	504



Austmig 5356

CLASSIFICATION:

- > AS/NZS ISO 18273 - S Al 5356
- > AWS A5.10: ER5356

DESCRIPTION:

> Precision layer wound Al/5%Mg wire suitable for welding wrought or cast aluminium alloys containing magnesium as the major alloying element.

> The Austmig 5356 is the most widely used welding alloy filler metal, due to

its excellent corrosion resistance and high shear strength.

TYPICAL APPLICATIONS:

Suitable for welding selected grades of wrought Al/Mg alloys including 5083, 5086, 5454 and 5456.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

Zn	Mg	Mn	Cr	Si	Fe	Ti	Al
0.1	5.2	0.15	0.1	0.25	0.4	0.15	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Gas Type	Ar
Yield Stress	125 Mpa
Tensile Strength	275 Mpa
Elongation	17%

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
0.9	2kg Spool	M5356092KG
	6kg Spool	M535609S
1.0	2kg Spool	M5356102KG
	6kg Spool	M535610S
1.2	2kg Spool	M5356122KG
	6kg Spool	M535612S
1.6	6kg Spool	M535616S

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
0.9, 1.0, 1.2 & 1.6	504



Austfil 70C-6M

CLASSIFICATION:

- > AS/NZS ISO 17632-B - T494T15-OMA-UH5
- > AWS A5.18: E70C-6M

DESCRIPTION:

> A metal-cored wire designed for high speed fillet and butt welding in the down-hand position using Argon + 18-25% CO₂ shielding gas mixtures. Weld beads are almost completely slag free with only minimal silicon islands, reducing the time and effort spent cleaning up prior to painting, coating or plating.

TYPICAL APPLICATIONS:

Recommended for single pass and multi pass welding in both the flat and horizontal positions for mild, carbon and manganese carbon steels with minimum clean up and where high deposition rates and efficiencies are required in high productivity, semi-automatic and fully automatic welding installations.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	S	P	Cu	Fe
0.05	1.62	0.58	0.006	0.012	0.03	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Gas Type	Ar+25% CO ₂
Yield Stress	569 Mpa
Tensile Strength	634 Mpa
Elongation	28%
CVN Impact Values	62J @ -40°C

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
1.2	15kg Vacuum Packed Spool	70C6M12S
1.6	15kg Vacuum Packed Spool	70C6M16S
1.2	250kg Drum	70C6M12D

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
1.2 & 1.6 (15kg)	1,080
1.2 (250kg)	1,000



Austfil 71T

CLASSIFICATION:

- > AS/NZS ISO 17632-B - T492T1-1 CA-UH10
- > AWS A5.20: E71T-1 H8

DESCRIPTION:

> A flux cored wire designed for excellent performance in all positional fillet weld and butt-welding applications. It is formulated exclusively for use with cost effective CO₂ shielding gas.

TYPICAL APPLICATIONS:

- > Recommended for general purpose all positional welding of mild carbon and carbon-manganese steels where an excellent weld profile and penetration is required.
- > Suitable for applications such as storage tanks, structural fabrication, machinery, earth moving equipment and fatigue loaded structures.



TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	S	P	Fe
0.03	1.28	0.44	0.01	0.013	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Gas Type	CO ₂
Yield Stress	531 Mpa
Tensile Strength	580 Mpa
Elongation	26%
CVN Impact Values	93J @ -20°C

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
1.2	15kg Spool	71T112S
1.6	15kg Spool	71T116S

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
1.2 & 1.6	1,080



Austfil 71T-1M

CLASSIFICATION:

- > AS/NZS ISO 17632-B - T493T1-1MA-UH10
- > AWS A5.20: E71T-1M

DESCRIPTION:

- > All positional rutile micro-alloyed type flux cored wire formulated for Ar/CO₂ shielding gas mixtures (18-25% CO₂). For optimum performance, Argon with 25% CO₂ is recommended.
- > Exceptionally smooth arc performance producing a superb weld with low spatter losses in all positions with excellent operator appeal.

TYPICAL APPLICATIONS:

- > Recommended for the welding of mild, carbon and carbon-manganese medium steels where good impact properties at -30 °C are required.
- > Typical applications include steel fabrication such as plate sections, beams, girders, truck chassis/bodies, ship building, earth moving equipment and storage tanks.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	S	P	B	Fe
0.04	1.15	0.35	0.004	0.013	0.004	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Gas Type	Ar+25% CO ₂
Yield Stress	511 Mpa
Tensile Strength	566 Mpa
Elongation	32%
CVN Impact Values	131J @ -30°C, 108J @ -20°C

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
1.2	15kg Spool	71T1M12S

FULL PALLET QUANTITY

WIRE SIZE (KG)	WEIGHT (KG)
1.2	1,080



Formula XL-525

CLASSIFICATION:

- > AS/NZS ISO 17632-B - T494T1-1MA-U H5
- > AS/NZS ISO 17632-B - T494T12-1MA-U H5
- > AWS A5.20: E71T-1M, E71T-12MJ H8

DESCRIPTION:

- > A rutile flux cored all position wire designed for welding mild and carbon steels, especially when good impact toughness is required at sub zero temperatures.
- > Ideal for single and multi-pass applications, it delivers outstanding welding performance and produces high quality X-ray clear weld deposit with a bead contour that is flat to slightly convex. It performs exceptionally well over rust,

mill scale and some primers with no pre-cleaning of the steel necessary.

- > Formula XL-525 has outstanding mechanical properties that resemble those of E7018 MMAW (SMAW) electrodes, plus high operator appeal with low fume levels, low spatter and easy slag removal.

TYPICAL APPLICATIONS:

Recommended for ship building, storage vessels, off-shore structures, earth moving equipment and pipe welding.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	Ni	Fe
0.04	1.24	0.29	0.37	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Gas Type	Ar+20% CO ₂
Yield Stress	503 Mpa
Tensile Strength	566 Mpa
Elongation	29%
CVN Impact Values	90J @ -40°C

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
1.2	15kg Spool	S283212-029
1.6	15kg Spool	S283219-029

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
1.2 & 1.6	1,080



FabCO 811N1

CLASSIFICATION:

- > AS/NZS ISO 17632-B - T554T1-1C/MA-N2-UH5
- > AWS A5.29: E81T1-Ni1CJ H4, E81T1-Ni1MJ H4

DESCRIPTION:

- > Designed for mining and earthmoving equipment and other fabrication where low temperature impact values are needed.
- > The improved slag system of this wire provides the superior welder appeal of acid slag (-T1) products and the mechanical properties normally associated with basic slag wires. Weld

metal diffusible hydrogen levels are kept low, making this an excellent choice for the more demanding applications.

TYPICAL APPLICATIONS:

High-strength low-alloy steels, bridge fabrication, structural fabrication, heavy equipment fabrication, shipbuilding, weathering steels when color-match is not required.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

	C	Mn	P	S	Si	Ni
100% CO ₂	0.03	1.09	0.007	0.005	0.32	1.01
75% Ar/25% CO ₂	0.06	1.39	0.009	0.008	0.53	1.00

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Hydrogen Equipment	100% CO ₂	75% Ar/25% CO ₂
Gas Chromatography	2.4ml/100g	3.0ml/100g

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Gas Type	100% CO ₂	75% Ar/25% CO ₂
Tensile Stress	572 Mpa	641 Mpa
Yield Strength	503 Mpa	586 Mpa
Elongation	27	23
CVN Impact Values	88J @ -40°C	54J @ -40°C

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
1.2	15kg Vacuum Packed Spool	S283612-053
1.6	15kg Vacuum Packed Spool	S283619-053

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
1.2 & 1.6	1,080



FabCO 803



CLASSIFICATION:

- > AS/NZS ISO 17632-B - T555T1-1C/MA-N5-UH5
- > AWS A5.29: E81T1-Ni2C/MJ H4

DESCRIPTION:

- > Offers excellent arc stability and low spatter using either CO₂ or Ar/CO₂ mixtures with up to 80% Argon.
- > These weldability features, combined with low diffusible hydrogen levels and good impact values makes the wire a

good choice for single and multiple pass welding in all positions.

TYPICAL APPLICATIONS:

Applications include ship building, offshore drilling rigs, HSLA steels and weathering steels with no colour match requirement.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

SHIELDING GAS	C	Mn	Si	P	S	Ni
100% CO ₂	0.04	1.00	0.29	0.010	0.012	1.84
75% Ar/25% CO ₂	0.05	1.25	0.40	0.010	0.010	2.00

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Gas Type	100% CO ₂	75% Ar/25% CO ₂
Yield Stress	535 Mpa	598 Mpa
Tensile Strength	609 Mpa	660 Mpa
Elongation	27.5%	24%
CVN Impact Values	98J @ -40°C 92J @ -51°C	74J @ -40°C 60J @ -51°C

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
1.2	15kg Vacuum Packed Spool	S283712-053
1.6	15kg Vacuum Packed Spool	S283719-053

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (MM)
1.2 & 1.6	1,080



Fabshield 4



CLASSIFICATION:

- > AS/NZS ISO 17632-B - T49ZT4-0NA-H15
- > AWS A5.20: E70T-4

DESCRIPTION:

- > Very high deposition rate, self-shielding flux cored wire for down hand single or multi-pass welding applications.
- > Specifically designed to desulphurise the weld deposit to reduce risk of weld cracking.

TYPICAL APPLICATIONS:

Typical applications include on site field construction and repair of structural members and machinery.



TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	P	S	Al	Fe
0.27	0.73	0.30	0.011	0.005	1.42	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Yield Stress	432 MPa
Tensile Strength	652 MPa
Elongation	25%
CVN Impact Values	Not Required

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
2.4	22.7kg Coil	S224529-014
3.0	22.7kg Coil	S224541-014

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
2.4 & 3.0	726.4



Fabshield 21B

CLASSIFICATION:

- > AS/NZS ISO 17632-B - T49ZT11-1NA-H15
- > AWS A5.20: E71T-11

DESCRIPTION:

> An all positional general purpose, self-shielding, flux cored wire, designed specifically for single and multi-pass welding of mild steel and galvanised steel up to a maximum of 20mm in thickness.

TYPICAL APPLICATIONS:

- > For on-site welding applications including farm and rural fabrication, fences, frames and sheds, etc.
- > Other uses include prefabricated steel frame construction, galvanised tank fabrication, repair of trucks, tractors and earth moving equipment.

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Yield Stress	427 MPa
Tensile Strength	627 MPa
Elongation	22%
CVN Impact Values	Not Required

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
0.8	4.5kg Spool	S222106-022
0.9	4.5kg Spool	S222108-022
0.9	15kg Spool	S222108-029
1.2	4.5kg Spool	S222112-022
1.2	15kg Spool	S222112-029
1.6	15kg Spool	S222119-029
2.0	15kg Spool	S222125-029

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
0.8, 0.9 & 1.2 (4.5kg)	864
0.9, 1.2, 1.6 & 2.0 (15kg)	1,080

SHIPPING QUANTITY (KG)

- 0.8, 0.9 (4.5kg) - 27 (6 spools)
- 1.2 (4.5kg) -18 (4 spools)

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	S	P	Al	Fe
0.28	0.34	0.15	0.008	0.003	1.72	Bal



Fabshield XLR-8



CLASSIFICATION:

- > AS/NZS ISO 17632-B - T494T8-1NA-H10
- > AWS A5.20: E71T-8JD H8

DESCRIPTION:

- > Low hydrogen T-8 self-shielded, all positional flux cored wire, producing a stable arc and flat bead profile, especially suited for vertical-up welds at high currents with excellent mechanical properties and a tensile strength of 490 MPa.
- > Capable of depositing X-ray quality welds, making it highly suitable for critical welding applications requiring a high degree of crack resistance due to its low diffusible hydrogen levels, less than 6.7ml per 100g of weld metal deposited.
- > XLR-8 has been designed for single and multi-pass welding applications with improved productivity in out-of-position welding, offering high impact strength of (42J) at sub zero temperatures to -40°C.

TYPICAL APPLICATIONS:

Specifically designed for increased productivity and high deposition rates on challenging structural steel erection, heavy equipment repair, mining equipment, bucket repairs, storage tanks, pipe spooling, ship construction and site work applications.

TYPICAL ALL WELD METAL CHEMICAL ANALYSIS

C	Mn	Si	P	S	Al	Fe
0.19	0.51	0.17	0.009	0.006	0.51	Bal

TYPICAL ALL WELD METAL MECHANICAL ANALYSIS

Yield Stress	469 Mpa
Tensile Strength	579 Mpa
Elongation	28%
CVN Impact Values	42J @ -40°C, 54J @ -30°C, 68J @ -20°C

ORDERING INFORMATION

WIRE SIZE (MM)	PACKET SIZE AND TYPE	PART NUMBER
1.6	15kg Vacuum Packed Spool	S225719-053
1.8	15kg Vacuum Packed Spool	S225724-053
2.0	15kg Vacuum Packed Spool	S225725-053
2.0	22.7kg Coil	S225725-014

FULL PALLET QUANTITY

WIRE SIZE (MM)	WEIGHT (KG)
1.6, 1.8 & 2.0 (15kg)	1,080
2.0 (22.7kg)	726.4

