BOSSWELD TECHNOLOGY

BT 70S-6 MILD STEEL MIG WELDING WIRE

KEY FACTS

- Higher levels of silicon and manganese for reduced weld metal surface tension, resulting in a flatter weld bead profile
- Used for joining mild & medium strength steels with a Tensile Strength up to 500MPa, such as AS1397 Grades: 250, 350 and 450
- Copper coated, precision layer wound (PLW) gas metal arc welding wire for use with high and low welding currents

DESCRIPTION

Bossweld is mild steel MIG welding wire containing higher silicon and manganese additions designed to improve welding. The higher Silicon content helps to reduce the molten metal surface tension, resulting in flatter weld bead profile with less spatter.

The precisely measured and applied copper coating (applied after final size wire drawing) improves power transfer at the contact-tip ensuring excellent arc starts and stability every time. Bossweld delivers consistent smooth feed ability, which produces a uniform welding arc that minimizes weld spatter and results in excellent bead appearance, high operator appeal and high productivity.

CLASSIFICATIONS, APPROVALS, CONFORMANCES

A5.18 ER 70S-6

RINA: Grade 3S, 3YS

ABS: Grade 3YSA

DNV: Grade III YMS

LRS: Grade 3YS-H15

RECOMMENDED SHIELDING GAS

Argon +18-25%CO^2 & Carbon Dioxide CO^2

AS 4882-2003: SG-AC-18 or SG-AC-25

ISO-14175-97: M21, M21(1) or M24

AS 4882-2003: SG-C **ISO**-14175-97: C1

WELDING POSITIONS

All positional, including vertical-down

PA PB PC PD PE PF PG

APPLICATIONS

Low hydrogen, copper coated, low carbon steel MIG wire for use with CO^2 & Argon mixed gases. Suitable for welding of mild & medium strength steels. Ideal for positional welding of sheet metal as the high silicon content promotes smooth even beads. Applications: tube sections, general steel repairs, construction, manufacturing & structural steel, automotive repairs, repairs and maintenance.

TYPICAL WIRE ANALYSIS

C Carbon	**Mn** Manganese	**Si** Silicon	**P** Phosphorus
0.076%	1.51%	0.89%	0.013%
S Sulphur	**Cu** Copper	**Fe** Iron	
0.017%	0.17%	Remainder	

TYPICAL WELD MECHANICAL PROPERTIES

Yield Strength	470 MPa
Tensile Strength	560 MPa
Elongation	26%
Impact Strength	150J @ +20oC 90J @ -20oC 60J @ -40oC

PACKAGING & ORDERING INFORMATION

Size	**Packet**	**Part Number**
0.9mm	15kg	210090
1.2mm	15kg	210120
1.2mm	250kg	210120P
72 spools /pallet		