STRATA 570 – Electrode for welding high sulphur and high tensile steels. Also for T.1 steels

SUPERIOR PRODUCTS FOR MAINTENANCE AND REPAIR

INTERNATIONAL LTD.

FEATURES & APPLICATIONS

Structural and repair welds on high strength fine grained steels.

Low alloy, high strength AC/DC electrode for joining low and medium alloy construction steels

- Extra low moisture content is below .14%
- Smooth running AC/DC coating operates in all positions
- Low spatter yield, self releasing slag and uniform rippled deposit

ALL WELD METAL ANALYSIS (TYPICAL WEIGHT %)

Microstructure: In the as welded condition, the microstructure is ferritic/bainitic with a proportion of acicular ferrite.

Flux Colour: Grey

		2						
С	Mn	S	Si	Р	Cr	Ni	Мо	Fe
.059	1.3	.006	.5	.012	.32	1.91	.37	Bal

TYPICAL MECHANICAL PROPERTIES

Undiluted Weld Metal

Tensile Strength Yield Strength Elongation Impact Energy

Maximum Value Up To

120,000 PSI (845 MPa) 96,000 PSI (665 MPa) 23% 82J (60ft. lbs.): 68°F (20°C) 50J (36ft. lbs.): -60°F (-51°C)

Ph: 0800 699 353 sales@prolinewelding.com

WELDING CURRENT & INSTRUCTIONS

Recommended Current: DC Reverse (+) or AC

Diameter (mm)	3/32 (2.5)	1/8 (3.25)	5/32 (4.0)	3/16 (5.0)
Minimum Amperage	65	100	140	190
Maximum Amperage	100	140	190	250

Welding Techniques: For the majority of materials to be welded with these electrodes, minimum preheats between 212°F (100°C) and 392°F (200°C) are required to avoid hydrogen induced "cold" cracking. Remove all surface contaminants. Maintain a short arc gap and use a stringer or slight weave technique. Chip slag thoroughly between passes.

Welding Positions: Flat, Vertical up, Vertical down, Horizontal, Overhead

Deposition Rates:

Diameter	Length	Weldmetal/	Electrodes	Arc Time of	Amperage	Recovery
(mm)	(mm)	Electrode	per lb (kg) of	Deposition	Settings	Rate
			Weldmetal	min/lb (kg)		
3/32 (2.5)	14" (350)	.42oz (12g)	38 (83 <mark>)</mark>	38 (84)	80	115%
1/8 (3.25)	14" (350)	.59oz (17g)	27 (60 <mark>)</mark>	21 (47)	115	115%
5/32 (4.0)	14" (350)	1.1oz (30g)	15 (32)	18 (39)	175	115%
3/16 (5.0)	14" (350)	1.8oz (50g)	9 (20) E	13 (28)	220	115%

APPROXIMATE ELECTRODE PACKAGING & DIMENSIONS

Diameter (mm)	3/32 (2.5)	1/8 (3.25)	5/32 (4.0)	3/16 (5.0)
Length (mm)	14" (350)	14" (350)	14" (350)	14" (350)
Electrodes/lb	21	12	8	6
Electrodes/kg	46	26	18	13



professional welding supplies

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