

Product Data Sheet

Rutile type C-Mn steels SUPER OPTIMAL 6013 SWMF

- ★ Superior weldability, finely rippled smooth weld beads.
- ★ Very soft arc, minimum spatter, radiographic quality welds.
- ★ Superior slag detachability.
- \star Excellent impact notch toughness at 0°C.

Classification AWS A5.1: E 6013 EN ISO 2560-A: E 38 0 R 12

Description and applications Premium rutile type medium coated electrode, used for the welding of large structures and process pipe work in the shipbuilding and construction industries where precise fit-ups are difficult to achieve. Super Optimal 6013 SWMF is a high quality electrode designed to give high impact toughness properties. The electrode formulation promotes a forceful arc to ensure sound fusion and is tolerant to variations in welding current, which are important considerations when welding under site conditions.

Base Materials

S(P)235 to S(P)355; GP240-GP280

Typical Weld Metal Chemical	С	Si	Mn	Р	S
Composition(%)	0.070	0.30	0.40	0.030	0.030

All weld metal Mechanical Properties (Typical)	Heat Treatment	Yield Strength R _p (N/mm ²)	Strength		Charpy impact value (ISO-V J 0°C)
	As welded	<u>></u> 380	470-540	<u>></u> 24	<u>></u> 70

Amperes	(A)
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2.00mm	2.40mm	2.50/2.60mm	3.15/3.20mm	3.25mm	4.00mm	4.80mm	5.00mm
50-70	60-80	60-90	90-130	110-140	140-180	160-220	180-230

Welding instruction

Keep dry and avoid condensation. Re-drying not generally required. If necessary : 100-110 °C for 1 hour.

Welding Positions

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10/PA	2F/PB	20/PC	3G/PF	4G/PE	

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