

Product: SPARK 7018

Classification:	AWS/ASME SFA-5.1	E 7018
	DIN 1913	E 51 55 B 10
	EN499	E 42 6 B 42 H10

Application/Properties: Electrode for producing crack-free welded joints with good toughness properties even on steels having carbon content up to 0.4%. Weld metal recovery is approx. 120%. Good operating characteristics also in positional welding. Weld metal exhibits good toughness properties down to -40 °C. Electrode is suitable for depositing buffer layers on steels having higher carbon content.

Suitable for:

Unalloyed structural steel: St33 to St52-3, St50-2 to St60-2.

Boiler Plates: HI, HII, 17Mn4

Pipe Steels: to St52.4, St35.8 to 17Mn4, StE210.7 to StE360.7 including corresponding TM-grades.

Fine Grain Structural Steels: StE255 to StE355, WStE255 to WStE355, TStE255 to TStE355.

Shipbuilding Steels: A, B, D, E.

Cast Steel: GS-38 to GS-52.

Rebaking required at 250 – 350°C for two hours.

Sizes and Currents	Diameter	Length	Current (A)
AC or DC+:	2.6mm	350mm	70 - 100
	3.2mm	450mm	90 - 140
	4.0mm	450mm	140 - 190
	5.0mm	450mm	190 - 250

С

0.08

Weld metal analysis	:
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Typical Values

Mechanical properties of all weld metal:

Typical Values

Yield Strength	>420 N/mm ²
Tensile Strength	500 - 640 N/mm ²
Elongation L.=5D.	>22%
Impact Strength	200 J at +20°C

Si

0.5

Mn

1.1

50 J at -60°C

Packaging:	2.6mm	8x2.5kg.packet/carton
	3.2, 4.0 & 5.0mm	4x5kg. packet/carton
		1 MT/pallet