Stainless Steel Electrode MT-S312



Description:

MT-S312-16 is stainless steel electrode for welding of alloyed-unalloyed high-strength steels, Cr and Mn steels, tool steels. Joining dissimilar steels, also used for tough buffer layers in hardsurfacing where hot and warm deformation exist and take place. Welding metal is resistant to corrosions, cracks and rust.

Welding position: Flat, Horizontal, Vertical, Overhead

Welding current: AC, DC

Redrying temperature: 300-350°C, 60 minutes

Classification: AWS A5.4 E 312-16

Chemical composition, wt.%

	C	Si	Mn	Cr	Ni	Mo	Cu	P	S
Min			0.5	28.0	8.0				
Typical	0.065	0.70	1.07	28.67	9.43	0.18	0.10	0.031	0.017
Max	0.15	0.90	2.5	32.0	10.5	0.75	0.75	0.04	0.03

Typical Mechanical Properties of weld Metal

Yield Strength	Tensile	Elongation	Charpy V	
		(%)	Impact Value	
	Strength		(+20°C)	
min. 490 N/mm ²	660-800 N/mm ²	min. 20	Min. 24 J	

Operating Data:

Dia. mm	Length mm	Current A
2.5mm	300mm	50-80
3.2mm	350mm	80-110
4.0mm	350mm	110-160