AS DA-774





Coated Electrode for High Strength Low Alloyed Steels

Classification

EN ISO 3580 : E CrMo 1 B 12 AWS A5.5 : E8018-B2

General Description

AS DA-774 is a basic coated electrode. It gives a Cr-Mo alloyed weld metal that is used in the welding of creep resistant pressure vessels and pipe steels operating under high temperatures. AS DA-774 is especially used for 13 CrMo 44 type steels that are frequently used in operating temperatures up to 570° C. It gives a root pass free of porosity with a minimum amount of spatter. It is recommended to use the electrode in DC (+).

Chemical Composition (w%), Typical, All Weld Metal

Mechanical Properties, Typical, All Weld Metal

Yield Strength : 540 N/mm 2 Tensile Strength : 620 N/mm 2 Elongation (L=5d) : 22 %

Impact (ISO-V) : 90 J (+20°C)

Approvals

GOST, SEPRO, TSE

Welding Parameters / Packing and Diameter Informations / Welding Positions

Current Type and Polarity: AC min 70 V; DC (+)

Diameter	Length	Current	Electrode Weight	Box Weight [kg]	Export Box	
[mm]	[mm]	[A]	[g/100 pcs]	Quantity [pcs/box]	Box Weight [kg]	
2.50	350	80 - 100	2030	3.9 / 190	5	
3.25	350	90 - 140	3270	4.7 / 145	5	
4.00	450	130 - 190	6420	6.1 / 95	6	
5.00	450	150 - 240	10000	6.5 / 65	6	











1G/PA 2F/PB

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2G/PC

3G/P

64





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Applications and Materials to be Welded

AS DA-774 is used for the welding of vapor pipes and boiler and pressure vessels that are manufactured from Cr-Mo steels. It can also be used in welding similarly alloyed cementation steels, heat treatable steels and cast steels. It is an ideal electrode in the multi-pass welding of thick sectioned and rigidly restrained mass structures.

	DIN	EN	Werkstoff Nr.
Heat Resistant Steels	15 CrMo 3		1.7205 1.7218 1.7225 1.7258 1.7262 1.7335 1.7337 1.7350 1.7709
Cast Steels	GS-25 CrMo 4 GS-22 CrMo 5 GS-22 CrMo 5 4 GS-17 CrMo 5 5	G25CrMo4 G22CrMo5 G22CrMo5-4 G17CrMo5-5	1.7218 1.7252 1.7354 1.7357
Cementation Steels	15 Cr 3 - -	_ 16MnCr5 20MnCr5	1.7015 1.7131 1.7147

^(*) Mechanical properties should be considered.