

Selectarc B81

Basic Electrode For cold tough steels

Classification

AWS A5.5 : E8018-C3 H4R EN 499 : E 46 5 1Ni B 4 2 H5

ISO 2560-A : E 46 5 1Ni B 4 2 H5

Description & Applications

Low hydrogen basic coated electrode alloyed with Nickel for welding steels with high strength and high toughness, resistant to low temperature down to -60°C. For weld joints exposed to low temperature. Regular fusion, nice aspect of the deposit.

Base materials

Fine grain construction steels, cold tough:

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EN :	S185 - S355 - P235GH - P355 - L210 - L415 - S/P275 -
	S/P460 - E295 - E335 - E360 - P295GH - P355GH - P235 -
	P265 – A St35 – A St52 – GP240R.
ASTM :	A302 Gr A, B, C, D – A333 Gr 126 – A414 Gr G – A487 Gr BQ
	CQ
	A521 Gr AA, AB, CE, CF, LF1 – A537 C12 – A572 Gr 60&65
	A350 Gr 126 - A350 Gr LF1, LF2 - A607 Gr 60&65 - A633 Gr
	A&B
	LF5 A668 Gr E&F – A714 Gr Tà VI

Т١	pical	Weld	Metal	Com	nositi	on (′ % \
-	picai	WOLU	MCta		DOSILI		/0 /

С	Si	Mn	Ni	Р	S	Fe	
< 0.12	0.5	1.1	1.0	< 0.025	< 0.025	Rem	

All Weld Metal Mechanical Properties

R _e (MPa)	R_m (MPa)	A ₅ (%)	KV (J)
>470	>550	>24	-40°C >70
			-50°C >47

Welding Current & Instructions

Electrode	ØxL (mm)	2,5x350	3,2x350	4,0x450	5,0x450
Current	(A)	80	115	150	190

Redrying at 350°C during 2 hours, if necessary. Eventual preheating of the weld joint at 100°C. Interpass temperature : < 250°C. A thermal stress relieving heat treatment is advised at 550°C during 1 - 2 hours.

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