



Selectarc B842

*Basic Electrode
For cold tough steels*

Classification

AWS A5.5 : E7018-G EN 499 : E 42 6 1Ni B 4 2 H5
ISO 2560-A : E 42 6 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. Used for weld joints exposed to low temperature. Regular fusion, nice aspect of the deposit.

Base materials

Fine grain construction steels, cold tough:

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 I à VI

Typical Weld Metal Composition (%)

C	Si	Mn	Ni	P	S	Fe
0.06	0.4	1.2	0.9	<0.025	<0.020	Rem.

All Weld Metal Mechanical Properties

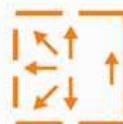
R _{p0.2} (MPa)	R _m (MPa)	A ₅ (%)	KV (J)
>470	550-680	>22	-60°C 50

Welding Current & Instructions

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

Redrying at 300°C during 2h, 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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