

ECOspark® 4-NC

Solid wire, mild steel, non coppered

Classifications				
EN ISO 14341-A	AWS A5.18			
G 38 3 M21 2Si	ER70S-3			
G 35 2 C 2Si				

Characteristics and typical fields of application

Solid wire electrode of type G2Si / ER7OS-3 with optimised properties for reliable welding performance within a wide parameter range. Well suited for welding before cinq and aluminium plating and for welding of cinque or alumium plated material. The non coppered welding wires with the ECOspark[®] surface are characterised by very good feeding properties at high wire feeding rates, a very stable arc performance and signifi cant low oxide / silicate forming on the weld surface. This makes them especially suited for fully mechanised processes with wire from BASEdrum, MEGAdrum or the sustainable ECOdrum bulk package.

Base materials

Steels with a yield strength \leq 355 MPa.

S235JR-S355JR, S235J0-S355J0, S235J2-S355J2, S275N-S355N, P235GH-P355GH, P275NL1-P420NL1, P215NL, P265NL, P355N, P285NH-P355NH, P195TR1-P265TR1, P195TR2-P265TR2, P195GH-P265GH ship building steels: A, B, D

ASTM A 106 Gr. A, B, C; A 181 Gr. 60; A 283 Gr. A, C; A 285 Gr. A, B; A 350 Gr. LF1

Typical analysis				
	C	Si	Mn	
wt%	0.07	0.7	1.10	
Machanical properties of all-wold motal - typical values (min_values)				

Mechanical properties of all-weld metal - typical values (min. values)

Condition	Yield strength R _e	Tensile strength R_m	Elongation A ($L_0 = 5d_0$)	Impact energy ISO-V KV J	
	МРа	MPa	%	-20°C	-30°C
u	420 (≥ 355)	530 (≥ 440 - 570)	23 (≥ 20)	80 (≥ 47)	(≥ 47)

u untreated, as welded M21

Operating data					
	Polarity	DC+	Dimension mm		
	Shielding gas	C1	0.8		
	(EN ISO 14175)	M21	1.0		
			1.2		
			1.6		
Approvals					