SF-3A

AWS A5.20 E71T-9M-J / AWS A5.36 E71T1-M21A4-CS1

EN ISO 17632-A: T 46 4 ZMnNi P M21 1 H5

EN ISO 9606-1: FM1



NST

General description:

SF-3A is a seamless, rutile flux cored wire designed for welding of steel with impact requirements down to -40°C such as grade E often used in shipbuilding. The flux cored wire uses a Argon/CO₂ mixed shielding gas which gives good weldability and a stable arc, minimum spatter, good visual bead and even transition to parent material.

Due to the seamless design the wire has an extremely low hydrogen content, (typical of \leq 2.8 ml/100g) which greatly reduces the possibility of cold cracks.

SF-3A emits little welding fume and has great weldability in all positions.

The wire has a clean copper coated surface which together with exact diameter and roundness, ensures stable and even wire feeding.

Wire stick out should be between 15-25mm dependent upon the welding parameters.

Voltage should be approx. 10% of the Ampere, which is 1-3 Volts lower than that of which conventional folded flux cored wires require.

Welding positions:











Welding current:

DC+

Type of gas / flow:

Ar+18-25% CO₂

18-25 l/min.

Typical chemical composition of all-weld-metal:

С	Si	Mn	Р	S	Cu	Ni		
0,05	0,50	1,50	0,010	0,006	0,30	0,35		

Diffusible hydrogen content (ml/100g):

≤5 ml/100g (2,8 ml/100g typical).

Typical mechanical properties of all-weld-metal:

Yie	eld and Tensile Strength	Charpy Impact Test		
Yield	Tensile	Elongation	Charpy V (J)	Charpy V (J)
Мра	Мра	%	-20 °C	-40 °C
547	612	25		90

Guidance - Ampere (DC+):

Wire diameter	1,2 mm	
Ampere / Volt	180-300A / 22-32V	

Packaging information:

1,2mm x 5,0kg spool D200

1,2mm x 12,5kg spool D300

1,2mm x 250kg drum Ø51cm

Approvals:

DNV-GL, LR, ABS, GL, CWB, DB, BV, PRS, TÜV, CE

Reference / date:

SF-3A, English, 07.06.2019.