SF-1E

AWS A5.36 E71T1-C1A2-CS1 / AWS A5.36M E491T1-C1A3-CS1

EN ISO 17632-A: T 42 2 ZMnNi P C1 1 H5

EN ISO 9606-1: FM1



General purpose flux cored wire for shipbuilding and structures with 100% CO₂ shielding gas.

General description:

SF-1E is a seamless, rutile flux cored wire for welding with 100% CO₂ shielding gas.

Due to the seamless design the wire has an extremely low diffusible hydrogen content, typical 2.7ml/100g weld metal.

The flux cored wire has excellent weldability in all positions and is extremely efficient in the root pass against ceramic backing.

Good penetration in vertical down greatly reduces the risk of imperfections.

It also gives excellent performance against porosity on primed steel plates when using automated

welding such as a fillet welding tractor.

Welding current:

DC+

SF-1E has a stable welding arc with less spatter and perfect bead surface.

The flux cored wire has a clean, copper coated surface.

Together with exact diameter and roundness it provides a stable and even wire feeding.

This reduces wear and tear of liners and contact tips. The wire is classified as a grade 3 (-20 °C).

Welding positions:













Type of gas / flow:

100% CO₂

18-25 l/min.

Typical chemical composition of all-weld-metal:

С	Si	Mn	Р	S	Ni		
0,06	0,38	1,20	0,011	0,007	0,30		

Diffusible hydrogen content (ml/100g):

≤5 ml/100g (2,7 ml/100g typical)

Typical mechanical properties of all-weld-metal:

,	ield and Tensile Strength	Charpy Impact Test		
Yield Mpa	Tensile Mpa	Elongation %	Charpy V (J) -20 °C	
530	590	27	100	

Guidance - Ampere (DC+):

Wire diameter	1,2 mm	1,4 mm	
Ampere / Volt	180-300A / 22-32V	250-350A / 25-33V	

Packaging information:

1,2mm x 5,0kg spool D200

1,2mm x 12,5kg spool D300

1,4mm x 12,5kg spool D300

Approvals:

DNV-GL, LR, ABS, GL, CWB, PRS, Rina, BV, CE

Reference / date:

SF-1E, English, 20.08.2020