

OK 73.79

Nickel alloyed basic AC/DC low hydrogen electrode for MMA welding of 3.5 % Ni steels with impact requirements down to -101 °C, e.g. in LPG tanks for ethane, chemical plants etc.

Specifications

Classifications	SFA/AWS A5.5 : E8016-C2 EN ISO 2560-A : E 46 6 3 Ni B 12 H5
Approvals	DNV-GL : 5 Y46H5 RS : 5Y46 H5

Approvals are based on factory location. Please contact ESAB for more information.

Welding Current	AC, DC+-
Diffusible Hydrogen	< 5.0 ml/100g
Alloy Type	Low alloyed (3.5 % Ni)
Coating Type	Basic covering

Typical Tensile Properties

Condition	Yield Strength	Tensile Strength	Elongation
ISO			
As Welded	540 MPa	630 MPa	27 %

Typical Charpy V-Notch Properties

Condition	Testing Temperature	Impact Value
ISO		
As Welded	-75 °C	110 J
As Welded	-60 °C	130 J
As Welded	-101 °C	35 J

Typical Weld Metal Analysis %

C	Mn	Si	Ni	Cr	Mo
0.06	0.8	0.36	3.37	0.05	0.01

Deposition Data

Diameter	Current	Voltage	Efficiency (%)	Fusion time per electrode at 90% I max	Deposition Rate
2.5 x 350.0 mm	70-110 A	25 V	60 %	60 sec	0.8 kg/h
3.2 x 450.0 mm	80-150 A	25 V	60 %	77 sec	1.5 kg/h
4.0 x 450.0 mm	90-190 A	27 V	63 %	88 sec	1.8 kg/h
5.0 x 450.0 mm	110-240 A	29 V	60 %	100 sec	2.1 kg/h