

OK 55.00

OK 55.00 is a reliable, high-quality, LMA electrode, particularly suitable for welding high strength low-alloy steels. The good, low-temperature impact strength of the weld metal should be noted. The weld metal is also very resistant to hot cracking. The electrode is also suitable for welding high strength ships steel, grades A, D and E. Tested according to NACE TM0177 and TM0284. Diffusible Hydrogen tested in various conditions show values below 3 ml/100g.

Specifications	
Classifications	SFA/AWS A5.1 : E7018-1H4 R CSA W48 : E4918-1-H4 EN ISO 2560-A : E 46 5 B 32 H5
Approvals	ABS : 4YQ420 H5 BV : 3Y H5 CE : EN 13479 CWB : E4918-1-H4 DB : 10.039.03 DNV-GL : 3Y H5 LR : 3Y H5 UKCA : EN 13479 VdTÜV : 00632

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

Welding Current	AC, DC+
Diffusible Hydrogen	< 4.0 ml/100g
Alloy Type	Carbon Manganese
Coating Type	Basic covering

Typical Tensile Properties			
Condition	Yield Strength	Tensile Strength	Elongation
ISO			
As Welded	500 MPa	590 MPa	28 %

Typical Charpy V-Notch Properties		
Condition	Testing Temperature	Impact Value
AWS		
As Welded	-45 °C	105 J
ISO		
As Welded	-50 °C	100 J

Typical Weld Metal Analysis %		
C	Mn	Si
0.06	1.5	0.5

Deposition Data					
Diameter	Current	Voltage	Efficiency (%)	Fusion time per electrode at 90% I max	Deposition Rate
2.5 x 350.0 mm	80-110 A	23 V	64 %	64 sec	0.9 kg/h
3.2 x 350.0 mm	110-140 A	23 V	62 %	72 sec	1.2 kg/h
3.2 x 450.0 mm	110-140 A	24 V	69 %	88 sec	1.4 kg/h
4.0 x 350.0 mm	140-200 A	23 V	62 %	72 sec	1.77 kg/h
4.0 x 450.0 mm	140-200 A	24 V	70 %	94 sec	2.0 kg/h

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Deposition Data

Diameter	Current	Voltage	Efficiency (%)	Fusion time per electrode at 90% I max	Deposition Rate
5.0 x 450.0 mm	200-270 A	24 V	72 %	94 sec	3.0 kg/h
6.0 x 450.0 mm	215-360 A	25 V	72 %	98 sec	4.0 kg/h