

# 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.

<b>Classifications:</b>	SFA/AWS A5.1:E7018-1H4 R, EN ISO 2560-A:E 46 5 B 32 H5
<b>Approvals:</b>	CE EN 13479, DB 10.039.03, VdTÜV 00632, LR 3Y H5, BV 3Y H5, GL 3Y H5, DNV 3Y H5, RS 3Y H5, ABS 3 H5, 3Y, NAKS/HAKC 5.0mm

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

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

## Typical Tensile Properties

Condition	Yield Strength	Tensile Strength	Elongation
<b>ISO</b>			
As welded	500 MPa	590 MPa	28 %

## Typical Charpy V-Notch Properties

Condition	Testing Temperature	Impact Value
<b>ISO</b>		
As welded	-45 °C	85 J
As welded	-50 °C	80 J

## Typical Weld Metal Analysis %

C	Mn	Si
0.06	1.5	0.5

## Deposition Data

Diameter	Current	Voltage	kg weld metal/ kg electrodes	Number of electrodes/kg weld metal	Fusion time per electrode at 90% I max	Deposition rate 90% I max
2.5 x 350 mm	80-110 A	23 V	0.64	66	64 s	0.9 kg/h
3.2 x 350 mm	110-140 A	23 V	0.62	41	72 s	1.2 kg/h
3.2 x 450 mm	110-140 A	24 V	0.69	30	88 s	1.4 kg/h
4.0 x 350 mm	140-200 A	23.2 V	0.62	28	72.5 s	1.77 kg/h
4.0 x 450 mm	140-200 A	24 V	0.71	19	94 s	2.0 kg/h
5.0 x 450 mm	200-270 A	24 V	0.72	13	94 s	3.0 kg/h
6.0 x 450 mm	215-360 A	25 V	0.71	9	98 s	4.0 kg/h