

Product Data Sheet

OK Flux 10.83

S 'Submerged arc welding'

Prepared by	Qualified by	Approved by	Reg no	Cancelling	Reg date	Page
M Gustafsson	Tero Tolonen	Martin Gehring	EN006044	EN003882	2013-04-04	1 (2)

REASON FOR ISSUE

EN 760 replaced by EN ISO 14174.

GENERAL

Agglomerated, aluminate-rutile, low basicity flux for Submerged Arc Welding. High welding speeds. Smooth weld beads and excellent slag detachability. For general construction, membrane wall panels, beam fabrications, automotive (wheels), etc. Primarily used with single- or twin-arc wire systems. For DC and AC. For single pass butt welds, overlap welds and fillet welds at high speeds.

CLASSIFICATIONS Flux

APPROVALS

EN ISO 14174

S A AR 1 85 AC

CE

EN 13479

APPROVAL COMMENT

All others: See Flux-Wire combinations

SLAG TYPE

Aluminate-rutile

CHEMICAL COMPOSITION

Flux (%)

	Nom
Al2O3+MnO	50
CaF2	5
SiO2+TiO2	40

Other properties:

Alloy Transfer High Silicon, no Manganese alloying

Basicity (Boniszewski) nom: 0.3

Bulk Density nom: 1.2 kg/dm3

Grain Size 0.2-1.6 mm (10x65 mesh)

WELDING POLARITY

DC+, AC

FLUX CONSUMPTION

(kg	F	lux /	4	kg	W	ir	e/	S	tr	ij	O)	ļ
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Arc Voltage	()	9 117
Arc Voltage	DC+	AC
26	0.7	0.6
30	1.0	0.9
34	1.3	1.2
38	1.6	1.4

 Current (A):
 580

 Travel Speed (cm/min):
 55

 Dimension (mm):
 Ø 4.0



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REDRYING

When handled and stored in suitable ways: Usually not necessary.

For hydrogen sensitive applications or when flux has picked up moisture: 300 +/- 25°C (570 +/- 45°F), 2 - 4 h

METALLURGICAL BEHAVIOR

Single Wire, Ø 4.0 mm, DC+, 30 V, 60 cm/min



