

Product Data Sheet

S 'Submerged arc welding'

Prepared by	Qualified by	Approved by	Reg no	Cancelling	Reg date	Page
M Gustafsson	Tero Tolonen	Martin Gehring	EN006041	EN004361	2013-04-04	1 (2)

REASON FOR ISSUE

EN 760 replaced by EN ISO 14174, Approval comment added.

GENERAL

Agglomerated aluminate-basic flux for Submerged Arc Welding especially for production of mild and high-strength line pipe steels (mainly spiral pipe production). Shallow reinforcement, low transition angles, smooth surface finish even at high welding speeds. Designed for single and multi wire procedures. Suitable for DC and AC welding.

CLASSIFICATIONS Flux		APPROVALS		
EN ISO 14174	S A AB 1 67 AC H5	CE	EN 13479	
		APPROVAL COM	MMENT	
		All others: See Fl	ux-Wire combinations	

SLAG TYPE

Aluminate-basic

CHEMICAL COMPOSITION

Flux (%)

	Nom
Al2O3+MnO	35
CaF2	15
CaO+MgO	20
SiO2+TiO2	25

Alloy Transfer	Slightly Silicon and moderately Manganese alloying		
Basicity (Boniszewski)	nom: 1.3		
Bulk Density	nom: 1.2 kg/dm3		
Grain Size	0.2-1.6 mm (10x65 mesh)		
Hydrogen	max 5 ml H/100g weld metal (Redried flux)		

WELDING POLARITY

DC+, AC

FLUX CONSUMPTION

	(kg Flux / kg Wire/Strip)		
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



