

OK Flux 10.65

Agglomerated fluoride-basic flux-wire combination for Submerged Arc Welding. Designed for multi-run welding of creep resistant 2,25% Cr 1% Mo alloyed steels, SA-387 Grade 22, A335 Grade P22 or similar materials when highest toughness values are required also after step cooling treatment. Very low level of impurity elements providing a X-bar max. 10 for temper embrittlement resistant applications. Usually welding is followed by a PWHT. Suitable for refinery, petrochemical and chemical industries, power generation, pressure vessels, etc. Also for narrow gap welding. Low-oxygen weld metal (approx. 300 ppm) with hydrogen contents lower than 5 ml/100 g. Designed for single and multi wire procedures, welds equally well on DC and AC current. Mainly for multi layer welding of unlimited plate thickness.

Clasificaciones	EN ISO 14174 : S A FB 1 65 AC H4 only BlockPac/moisture protection EN ISO 14174 : S A FB 1 65 AC H5
Aprobaciones	CE EN 13479

Las aprobaciones dependen de la ubicación de la fábrica. Póngase en contacto con ESAB para obtener más información.

Hidrógeno difusible	max 5 ml H/100g weld metal (Redried flux); max 4 ml H/100g in BlockPac (moisture protection)
Tipo de escoria	Fluoride-basic
Transferencia de aleación	Slightly Silicon and no Manganese alloying
Densidad	nom 1.0 kg/dm ³
Índice de basicidad	nom 2.4 %
Granulometría	0.2-1.6 mm (10x65 mesh)

Flux Consumption

Volts	kg Flux / kg Wire DC+	kg Flux / kg Wire AC
26 V	0.7 kg	0.6 kg
30 V	1.0 kg	0.9 kg
34 V	1.3 kg	1.2 kg
38 V	1.6 kg	1.4 kg

Dimensions	Amps	Travel Speed
Ø 4.0 mm	580 A	55 cm/min

Classifications

Wire	AWS/EN	AWS - PWHT
OK Autrod B3 SC	A5.23:EB3R/ 24598-A:S S CrMo2	A5.23: F9P2-EB3R-B3R

Approvals

Combined with Wire	CE
OK Autrod B3 SC	•

Typical Mechanical Properties

Combined with Wire	Condition	Yield Strength	Tensile Strength	Elongation	Charpy V-Notch
OK Autrod B3 SC	PWHT AWS AC	580 MPa	700 MPa	25 %	100 J @ -30°C 100 J @ -30°C
OK Autrod B3 SC	PWHT AWS DC+	580 MPa	690 MPa	17 %	100 J @ -30°C
OK Autrod B3 SC	PWHT EN ISO AC	560 MPa	680 MPa	18 %	200 J @ 20°C 200 J @ 20°C
OK Autrod B3 SC	PWHT AWS DC+	520 MPa	640 MPa	26 %	130 J @ -30°C 130 J @ -30°C
OK Autrod B3 SC	PWHT AWS AC	540 MPa	650 MPa	25 %	170 J @ -30°C 170 J @ -30°C
OK Autrod B3 SC	PWHT AWS AC	460 MPa	590 MPa	29 %	170 J @ -30°C 170 J @ -30°C
OK Autrod B3 SC	PWHT AWS DC+	440 MPa	570 MPa	28 %	100 J @ -30°C 100 J @ -30°C

à% Análisis metal depositado (valores típicos)

C	Mn	Si	S	P	Ni	Cr	Mo	V	Al
OK Autrod B3 SC AC, 480A, 29V, HI 1.9 kJ/mm									
0.10	0.84	0.17	0.005	0.005	0.04	2.38	0.96	0.005	0.01
OK Autrod B3 SC DC+, 480A, 29V, HI 1.9 kJ/mm									
0.09	0.93	0.23	0.006	0.005	0.04	2.30	0.96	0.005	0.01

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										Cu	Nb	Ti
Sb	As	B	Sn	Mn+Si	Nb+Ti+V	P+Sn	PE	J-Factor	X-bar	OK Autrod B3 SC AC, 480A, 29V, HI 1.9 kJ/mm		
0.05	0.002	0.002	0.001	0.002	0.0002	0.003	1.00	0.009	0.008	3.0	85	7
										OK Autrod B3 SC DC+, 480A, 29V, HI 1.9 kJ/mm		
0.05	0.003	0.002	0.001	0.002	0.0002	0.003	1.15	0.009	0.008	3.1	92	7