

Covered electrode, high-alloyed, nickel-base

Classification	ns												
Material-No.			AWS A5.11 / SFA-5.11						EN ISO 14172				
2.4807			ENiCrFe-3						E Ni 6182 (NiCr15Fe6Mn)				
Characteristi	cs and typical f	ields of a	applic	ation									
	signed for joining an tic to ferritic steels,												
	positions, except ve enitic structure and												
The preheating	must be matched t	o the pare	nt meta	al. Any	post heat t	reatments	s can b	oe applie	ed witho	ut regard	d for the	wel	d metal
Typical analy	sis												
	С	Si M		Mn		Cr		Ni	Ni		Nb		Fe
wt%	0.025	0.4 6.		6.0		16.0		bal.	bal.		2.2		8.0
Mechanical p	properties of all	-weld me	etal -	typica	al values	(min. va	alues)	1					
Condition	R <sub>p0.2</sub> R <sub>r</sub>		Tensile stren R <sub>m</sub>		ength Elongation $(L_0=5d_0)$		Impact energ		gy ISO-V KV J			Hardness	
			МРа		%		J		-196°C			HB	
J	400	650			40		120		8	30		Ca	a. 170
Operating da	ta												
× † †	Polarity		DC +					Dimension mm		1	Current A		Α
	Redrying		2-3 h / 250 - 300 °C					2.5 × 300			50 - 70		
× • •							3.2 × 300		70 – 95				
						4.0 ×			× 350		90 -	90 – 120	
	Ę				5.0 × 400			120 -	120 – 160				
Welding inst	ructions												
)nening angle o	of the prepared sea	m annrox	70º ro	ot dan	approx 2 r	nm The	stick el	lectrode	is weld	ed with a	a slight ti	lt ar	nd short arc

Opening angle of the prepared seam approx. 70°, root gap approx. 2 mm. The stick electrode is welded with a slight tilt and short arc. Use string beads welding technique. The interpass temperature of  $150^{\circ}$  C and a max. weaving width 2.5 x diameter of the stick electrode core wire should not be exceeded. Redry stick electrode prior welding for 2 - 3 h at  $250 - 300^{\circ}$  C, welding out of a hot stick electrode carrier.

## **Approvals**

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