

## **BÖHLER FOX EAS 2-VD**

Covered electrode, high-alloyed, austenitic stainless

#### Classifications

EN ISO 3581-A AWS A5.4 / SFA-5.4 F 19.9 I. R 1.5 F308I - 17

## Characteristics and typical fields of application

Rutile-basic coated, core wire alloyed electrode of E 19 9 L R / E308L-17 type especially designed for vertical-down welding of stainless steel sheet metals of 1.4307 / 304L type. Suitable for welding of root and cap layers on V-joints in vertical down position. When using same electrode diameter and same wall thickness, it is possible to save up to 50% of the welding time as compared to the vertical up position. Fast travel speed resulting in low heat input and little distortion minimizes straightening work. Max. service temperature 350°C. The scaling temperature is approximately 850°C in air.

#### **Base materials**

1.4301 X5CrNi18-10, 1.4306 X2CrNi19-11, 1.4307 X2CrNi18-9, 1.4311 X2CrNiN18-9, 1.4312 GX10CrNi18-8, 1.4541 X6CrNiTi18-10, 1.456 X5CrNiNb18-10, 1.4550 X6CrNiNb18-10

UNS S30400, S30403, S30453, S32100, S34700

AISI 304, 304L, 304LN, 302, 321, 347

Typical analysis					
	C	Si	Mn	Cr	Ni
wt%	0.02	0.7	0.7	19.8	10.5

### Mechanical properties of all-weld metal - typical values (min. values)

Condition	Yield strength R <sub>p0.2</sub>	Tensile strength R <sub>m</sub>	Elongation A (L <sub>0</sub> =5d <sub>0</sub> )	Impact energy ISO-V KV J
	MPa	MPa	%	20°C
u	470 (≥ 320)	600 (≥ 520)	36 (≥ 30)	55
u untreated, as-welded				

# Operating data

-	_		
×			
<b>←</b>		П	
<i>K</i>		*	

Polarity	DC+
Electrode	FOX EAS 2-VD 308L-17 E 19 9 L R
identification	

Dimension mm	Current A
2.5 × 300	75 – 85
$3.2 \times 300$	105 – 115

Suggested heat input is max. 2.0 kJ/mm and interpass temperature max. 150°C.

Post-weld heat treatment generally not needed. In special cases, solution annealing can be performed at 1050°C followed by water quenching.

Re-drying at 120 - 200°C for min. 2 h if necessary.

#### **Approvals**

CWB, CE