

BÖHLER FOX CEL

Stick electrode, mild steel, cellulose coated, pipeline welding



Classifications

EN ISO 2560-A
E 38 3 C 2 1

AWS A5.1 / SFA-5.1
E6010

Characteristics and typical fields of application

Cellulose electrode for vertical-down welding of large diameter pipelines; suitable for root runs (vertical down and vertical up), hot passes, filler and cover layers. Especially recommended for root run welding. Highly economical compared with vertical-up welding. Apart from its excellent welding and gap bridging characteristics FOX CEL offers a weld deposit with outstanding impact strength values and thus offers the benefit of still more safety in field welding of pipelines. BÖHLER FOX CEL can be used in sour gas applications (HIC-Test acc. NACE TM-02-84). Test values for SSC-test are available too.

Base materials

S235JR, S275JR, S235J2G3, S275J2G3, S355J2G3, P235GH, P265GH, P355T1, P235T2-P355T2, L210NB - L415NB, L290MB - L415MB, P235G1TH, P255G1TH

Root pass up to L555NB, L555MB

API Spec. 5 L: A, B, X 42, X 46, X 52, X 56, Root pass up to X 80

Typical analysis of all-weld metal

wt.-%	C	Si	Mn
	0.12	0.14	0.5

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

Condition	Yield strength R _e MPa	Tensile strength R _m MPa	Elongation A (L ₀ =5d ₀) %	Impact values ISO-V KV J			
				20°C	0°C	-20°C	-30°C
u untreated, as welded	450 (≥ 380)	550 (470 – 600)	26 (≥ 22)	100	90	70	55 (≥ 47)

Operating data

 Polarity Electrode identification Redrying	DC +/−, Minuspol für Wurzel	Dimension mm 2.5 × 250 2.5 × 300 3.2 × 350 4.0 × 350 5.0 × 350	Current A 50 – 90 50 – 90 80 – 130 120 – 180 160 – 210
	FOX CEL 6010 E 38 2 C		
	not allowed		

Approvals

TÜV (01281), DNV GL, CE