

Classifications

EN ISO 2560-A	EN ISO 2560-B	AWS A5.1M	AWS A5.1 / SFA-5.1
E 38 2 RB 1 2	E4303 A U	E4313	E6013

Characteristics and typical fields of application

Rutile-basic coated electrode especially recommended for out-of-position work except vertical-down. Excellently suited for welding root passes. Produces first class X-ray quality welds. Excellent welding properties on A.C. Preferably used in structural and tank welding as well as in tube & pipe construction. High mechanical properties, thus suitable for many different base metals.

Base materials

Steels up to a yield strength of 380 MPa (52 ksi)
S235JR-S355JR, S235JO-S355JO, S275N-S355N, S275M-S355M, P235GH-P355GH, P195TR1-P265TR1, P195TR2-P265TR2, P195GH-P265GH, L245NB-L360NB, L245MB-L360MB
ASTM A 106 Gr. A, B; A 283 Gr. A, C; A 285 Gr. A, B, C; A 414 Gr. A, B, D, G; A 501 Gr. B; A 516 Gr. 55, 60, 65, 70; A 573 Gr. 58, 65, 70; A 588 Gr. A, B; A 633 Gr. A, C, D; A 662 Gr. A, B, C; A 711, Gr. 1013; API 5 L Gr. B, X42, X52

Typical analysis

	C	Si	Mn
wt.-%	0.08	0.2	0.45

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

Condition	Yield strength R_e	Tensile strength R_m	Elongation A ($L_0=5d_0$)	Impact energy ISO-V KV J			
	MPa	MPa	%	20°C	0°C	-10°C	-20°C
u	420 (≥ 380)	500 ($\geq 470 - 600$)	28 (≥ 20)	90	75	70	60 (≥ 47)

u untreated, as welded

Operating data

	Polarity	DC – / AC	Dimension mm	Current A
	Electrode identification	FOX SPE E 38 2 RB		
			2.0 × 250	45 – 75
			2.5 × 250	60 – 100
			2.5 × 350	60 – 100
			3.2 × 350	90 – 140
			4.0 × 450	110 – 190
			5.0 × 450	170 – 250

Approvals

TÜV (00731), DB (10.014.03), ABS, BV, DNV, LR, CE