

IABCO EB2

SAW wire for low alloy steels

Product name	IABCO EB2
Classification EN ISO	24598-A: S CrMo1
Material No.	1.7346
Classification AWS	A5.23: EB2R
Approvals	TÜV 12685.00, CE.
Applications	Submerged arc welding wire for high temperature creep resistant 1.25%Cr-0.5%Mo ferritic steel. These steels are used for creep resisting applications up to ~550°C. Typical applications in power generation plant include steam piping, turbines and boilers; the alloy also finds applications in the chemical and petro-chemical industries. The wire has low levels of tramp elements (eg. Sn, As, Sb & P) providing a low Bruscato (X) Factor for temper embrittlement resistant applications.
Base materials	For matching 1.25%Cr-0.5%Mo creep resisting ferritic steels. ASTM: A182 grades F11/F12, A199/A200 grade T11, A217 grades WC6/WC11, A234 grades WP11/WP12, A335 grades P11/P12, A387 grades 11/12. 13CrMo 4-5, 16CrMo 4-4, G-17CrMo 5-5, 24CrMo5, 25CrMo4
Typical analysis of wire, weight %	C: 0.10 Si: 0.17 Mn: 0.95 Cr: 1.20 Mo: 0.52
Typical heat treatment ⁽¹⁾	Preheat temperature: 200°C. Interpass temperature: 300°C. PWHT: 620-690°C.
Mechanical properties of weld deposit ⁽²⁾	0.2% proof stress, Rp0.2%: ≥470MPa. Tensile strength, Rm: ≥550MPa. Elongation, 4d/5d: ≥20%.
Other products	MIG/GMAW: A32, ER80S-B2. TIG/GTAW: A32, ER80S-B2.

Notes (1) Application codes and project specifications should always be referred to for specific requirements.

(2) Actual mechanical properties will be dependent on specific welding procedure (including shielding gas, flux, PWHT etc) and should always be confirmed by approval of an appropriate welding procedure.