

IABCO EB3

SAW wire for low alloy steels

Product name	IABCO EB3
Classification EN ISO	24598-A: S CrMo2
Material No.	1.7305
Classification AWS	A5.23: EB3R
Approvals	TÜV 12685.00, CE.
Applications	Submerged arc welding wire for high temperature creep resistant 2.25%Cr-1%Mo ferritic steel. These steels are used for creep resisting applications up to ~600°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 2.5%Cr-1%Mo creep resisting ferritic steels. ASTM: A182 grade F22, A199/A200 grades T21/T22, A213 grade T22, A217 grade WC9, A234 grade WP22, A335 grade P22, A387 grades 21/22. 10CrMo 9-10, 12CrMo 9-10, G-17CrMo 9 10
Typical analysis of wire, weight %	C: 0.11 Si: 0.15 Mn: 0.55 Cr: 2.60 Mo: 1.00
Typical heat treatment ⁽¹⁾	Preheat temperature: 200°C. Interpass temperature: 300°C. PWHT: 690°C.
Mechanical properties of weld deposit ⁽²⁾	0.2% proof stress, Rp0.2%: ≥470MPa. Tensile strength, Rm: ≥550MPa. Elongation, 4d/5d: ≥20/18%.
Other products	MIG/GMAW: A33, ER90S-B3. TIG/GTAW: A33, ER90S-B3.

- 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.