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ER308H

MIG, TIG and sub-arc wire for austenitic stainless steel

Product name	IABCO ER308H
Classification EN ISO	14343-A: G/W/S 19 9 H
Material No.	-
Classification AWS	A5.9: ER308H (ER19-10H possible on request)
Approvals	-
Applications	For welding nominally 18%Cr-8%Ni austenitic stainless steel base materials with carbon ≥0.04%. ER308H is not used for corrosion resisting applications but for high temperature applications where good oxidation resistance and creep strength are required. Typical applications include petrochemical plant eg. cat crackers. Typical service temperatures up to ~800°C.
Base materials	For high carbon (\geq 0.04%) 18:8 austenitic stainless steels. ASTM: 304H, CF10. EN: 1.4948. UNS: S30409. Also suitable for other high carbon (\geq 0.04%) stainless steels: 321H, 347H.
Typical analysis of wire, weight %	C: 0.05 Si: 0.40 Mn: 1.80 Cr: 19.6 Ni: 9.2
Typical heat treatment ⁽¹⁾	Preheat: Not required. Interpass temperature: 250°C. PWHT: Not required.
Mechanical properties of weld deposit ⁽²⁾	0.2% proof stress, Rp 0.2% : ≥ 350 MPa.Tensile strength, Rm: ≥ 550 MPa.Elongation, 4d/5d: $\geq 30\%$.
Other products	-

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.