

## ER317L

### MIG/GMAW and TIG/GTAW wire for austenitic stainless steel

Product name	IABCO ER317L
Classification EN ISO	14343-A: G/W 18 15 3 L G/W 19 13 4 L
Material No.	1.4438
Classification AWS	A5.9: ER317L
Approvals	-
Applications	For welding nominally 18%Cr-14%Ni-3.5%Mo austenitic stainless steel base materials. The alloy has good general corrosion resistance and finds applications in the chemical, petro-chemical, food, brewery and paper industries; as well as many other general fabrication applications. Typical service temperatures are in the range -100°C up to 400°C.
Base materials	For Mo bearing austenitic stainless steels. ASTM: 317, 317L, CG3M, CG8M. EN: 1.4438. UNS: S31700, S31703.
Typical analysis of wire, weight %	C: 0.01 Si: 0.40 Mn: 1.50 Cr: 19.0 Ni: 14.5 Mo: 3.60
Typical heat treatment <sup>(1)</sup>	Preheat: Not required. Interpass temperature: 150°C. PWHT: Not required.
Mechanical properties of weld deposit <sup>(2)</sup>	0.2% proof stress, Rp0.2%: ≥320MPa. Tensile strength, Rm: ≥520MPa. Elongation, 4d/5d: ≥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.