

IABCO FK1000 TIG

TIG/GTAW wire for low alloy high strength steels

Product name	IABCO FK1000 TIG
Classification EN ISO	16834-A: W 89 5 WMn4Ni2CrMo
Material No.	-
Classification AWS	A5.28: ER120S-G
Approvals	-
Applications	TIG/GTAW wire for welding high strength low alloy steels. Used for welding high strength steels in many high stress, critical applications; also exhibiting excellent toughness down to -50°C. Typical applications can be found in the mining, shipbuilding, automotive and pressure vessel industries.
Base materials	For high strength fine-grained structural steels up to yield strength 890MPa (129ksi). HY80, Q1(N), HY100, Q2(N) S690Q-S890Q, S690QL-S890QL, S690QLN-S890QLN.
Typical analysis of wire, weight %	C: 0.09 Si: 0.80 Mn: 1.80 Cr: 0.31 Ni: 2.20 Mo: 0.55 Ti: 0.14
Typical heat treatment ⁽¹⁾	Welding procedure, including preheat temperature, interpass temperature and PWHT, will be dependent on the base material being welded and any applicable design codes.
Mechanical properties of weld deposit ⁽²⁾	0.2% proof stress Rp0.2%: ≥890MPa. Tensile strength Rm: ≥940MPa. Elongation 4d/5d: ≥15%. Impact ISO-V, -50°C: ≥47J.
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.