

IABCO C16

TIG/GTAW cupronickel wire

Product name	IABCO C16
Classification EN ISO	24373: S Cu 7061 (CuNi10)
Classification AWS	-
Applications	IABCO C16 is a 90/10 cupronickel wire which is used for welding matching cupronickel alloys. Cupronickel is used in the offshore and desalination industries to provide good corrosion resistance in seawater environments. For some applications the IABCO ERCuNi, 70/30 wire, can also be used for welding the lower strength 90/10 cupronickels. With a suitable buffer layer (eg. ERNi-1 or ERNiCu-7) can be used for cladding CMn steel.
Base materials	Matching 90/10 cupronickel: C70600, 2.0872.
Typical analysis of wire, weight %	Cu: Balance Ni: 10 Mn: 0.8 Fe: 1.2 Ti: 0.3
Typical heat treatment ⁽¹⁾	Preheat: None Interpass: 150°C Cleanliness is critical and contamination with Pb, Sn and Zn must be avoided.
Typical mechanical properties of weld ⁽²⁾	0.2% proof stress Rp0.2%: 180MPa Tensile strength Rm: 300MPa Elongation 4d/5d: 35%
Other products	TIG/GTAW: IABCO ERCuNi (70/30 cupronickel).

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.