

## IABCO C13

### MIG/GMAW and TIG/GTAW copper base wire

Product name	IABCO C13
Classification EN ISO	24373: Cu6180 (CuAl10Fe)
Classification AWS	A5.7: ERCuAl-A2
Classification BS	2901 pt 3: C13 (obsolete specification)
Applications	Copper based wire for aluminium bronzes containing nominally 9% aluminium. Used to produce wear and corrosion resistant overlays. Applications include pumps, castings, and heat exchangers in the offshore, marine and mining industries.
Base materials	Wide range of aluminium bronze alloys, eg: C61300, C61400. Manganese bronze. Silicon bronze, eg: C65500. Brasses, eg: C27400, CuZn37. Used for overlays on aluminium bronze alloys and CMn steels. Suitable for dissimilar joints between CMn steel and many copper base alloys.
Typical analysis of wire, weight %	Cu: Balance Al: 9.5 Fe: 1.2
Typical heat treatment <sup>(1)</sup>	Preheat: For aluminium bronzes not required. Interpass temperature: For aluminium bronzes 200°C maximum.
Typical mechanical properties of weld <sup>(2)</sup>	0.2% proof stress Rp0.2%: 250MPa Tensile strength Rm: 500MPa Elongation 5d: 35%
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.