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# IABCO ERCuNi

## TIG/GTAW cupronickel wire

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|---|---|
| Product name | IABCO ERCuNi |
| Classification EN ISO | 24373: S Cu 7158 (CuNi30Mn1FeTi) |
| Classification AWS | A5.7: ERCuNi |
| Applications | IABCO ERCuNi is a 70/30 cupronickel wire, also sometimes called filler metal 67, which is used for welding matching cupronickel alloys.<br>Cupronickel is used in the offshore and desalination industries to provide good corrosion resistance in seawater environments.<br>The 70/30 wire is also suitable 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 70/30 cupronickel: C71500, C71640, 2.0882, 2.0883.<br>90/10 cupronickel: C70600, 2.0872. |
| Typical analysis of wire, weight % | Cu: Balance<br>Ni: 31<br>Mn: 0.7<br>Fe: 0.5<br>Ti: 0.3 |
| Typical heat treatment (1) | Preheat: None<br>Interpass: 150°C<br>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%: 200MPa<br>Tensile strength Rm: 380MPa<br>Elongation 4d/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.