

IABCO ERNiCrMo-4

MIG and TIG nickel base wire

Product name	IABCO ERNiCrMo-4	
Classification EN ISO	18274:	SNi6276 (NiCr15Mo16Fe6W4)
Material No.	2.4886	
Classification AWS	A5.14:	ERNiCrMo-4
Applications	<p>Nickel base wire, commonly referred to as alloy C276, which is used for a wide range of applications.</p> <p>Uses include welding matching, and other similar nickel base alloys, for applications in the paper, offshore, chemical and petrochemical industries.</p> <p>Other applications include: Dissimilar welds between nickel base alloys and low alloy or stainless steels. Welding of corrosion resistant alloys to provide overmatching weld metal and welding 9%Ni steels. Surfacing of CMn and low alloy steels.</p>	
Base materials	<p>Nickel base alloy C276: N10276, 2.4819, Hastelloy™ C-276 (Haynes International), Inco Alloy C-276 (Special Metals), Nicrofer 5716hMoW (Outokumpu VDM).</p> <p>Dissimilar welds: nickel alloys to low alloy and stainless steel.</p> <p>Cladding: surfacing a wide range of steels.</p>	
Typical analysis of wire, weight %	<p>C: <0.01</p> <p>Mn: 0.5</p> <p>Ni: Balance</p> <p>Fe: 6.0</p>	<p>Si: 0.05</p> <p>Cr: 16.0</p> <p>Mo: 16.0</p> <p>W: 3.5</p>
Typical heat treatment ⁽¹⁾	<p>Requirements for preheat and PWHT will be dependent on the base material being welded; but for matching base materials preheat and PWHT are not normally required.</p> <p>For matching alloys interpass temperature should be controlled (100°C maximum) and heat input restricted ($\leq 1.5\text{kJ/mm}$).</p>	
Typical mechanical properties of weld ⁽²⁾	<p>0.2% proof stress Rp0.2%:</p> <p>Tensile strength Rm:</p> <p>Elongation 4d/5d:</p> <p>Impact ISO-V, +20°C:</p>	<p>500MPa</p> <p>720MPa</p> <p>35%</p> <p>150J</p>
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.