

IABCO ERNiCrMo-13

MIG and TIG nickel base wire

Product name	IABCO ERNiCrMo-13	
Classification EN ISO	18274:	SNi6059 (NiCr23Mo16)
Material No.	2.4607	
Classification AWS	A5.14:	ERNiCrMo-13
Applications	<p>Nickel base wire, commonly referred to as alloy 59, 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. Has also found extensive use on scrubbers for FGD (flue gas desulphurisation) applications.</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 eg. 6-7%Mo superaustenitic base materials. Surfacing of CMn and low alloy steels.</p>	
Base materials	<p>Nickel base alloy 59: N06059, 2.4605, Microfer™ 5923 hMo (Outokumpu VDM).</p> <p>Similar nickel base alloys: N06022, N06200, N06276, N06686, Hastelloy™ C22 (Haynes International), Hastelloy™ C2000 (Haynes International), Inconel™ 686 (Special Metals).</p> <p>Dissimilar welds: nickel alloys to low alloy and stainless steel.</p> <p>Superaustenitic alloys: 6-7%Mo, S31254, S32654, S34565 and similar alloys.</p> <p>Cladding: surfacing a wide range of steels.</p>	
Typical analysis of wire, weight %	<p>C: <0.01</p> <p>Mn: 0.2</p> <p>Ni: Balance</p> <p>Fe: 0.5</p>	<p>Si: 0.05</p> <p>Cr: 23.0</p> <p>Mo: 15.5</p> <p>Al: 0.2</p>
Typical heat treatment ⁽¹⁾	Requirements for preheat and PWHT will be dependent on the base material being welded.	
Typical mechanical properties of weld ⁽²⁾	<p>0.2% proof stress Rp0.2%: 500MPa</p> <p>Tensile strength Rm: 720MPa</p> <p>Elongation 4d/5d: 35%</p> <p>Impact ISO-V, +20°C: 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.