

IABCO ERNi-1

MIG/GMAW and TIG/GTAW nickel base wire

Product name	IABCO ERNi-1	
Classification EN ISO	18274:	S Ni2061 (NiTi3)
Material No.	2.4155	
Classification AWS	A5.14:	ERNi-1
Approvals	CE.	
Applications	<p>Nickel base wire for welding nickel alloy 200/201, and sometimes referred to as filler metal 61.</p> <p>Uses include welding matching nickel alloys, and also dissimilar joints between the matching pure nickel and iron or nickel base alloys. Also finds applications in dissimilar joints involving some copper based alloys.</p> <p>The matching alloy has good corrosion resistance particularly in alkalis.</p>	
Base materials	<p>Matching nickel base alloy: N02200, N02201, 2.4060, 2.4061, 2.4066, 2.4068, ATI 200 & ATI 201 (ATI), Nickel 200 & 201 (Special Metals), Nickel 99.2 & LC-Nickel 99 (Outokumpu-VDM).</p> <p>Dissimilar welds: nickel alloys to low alloy/CrMo/stainless steel.</p> <p>Cladding: surfacing a wide range of steels, and also as a buffer layer.</p> <p>Cast iron: can prove useful on a range of cast irons.</p>	
Typical analysis of wire, weight %	C:	0.01
	Si:	0.1
	Mn:	0.4
	Ti:	3.0
	Al:	0.1
	Fe:	0.1
	Ni:	Balance
Typical heat treatment ⁽¹⁾	Requirements for preheat and PWHT will be dependent on the base material being welded.	
Typical mechanical properties of weld ⁽²⁾	0.2% proof stress Rp0.2%:	325MPa
	Tensile strength Rm:	550MPa
	Elongation 4d/5d:	30%
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.