



Nexus 182

Ni Cr Nb alloy wires for MIG and TIG welding applications

182 Nickel Alloy solid wires for joining pipework, plate and vessel of similar composition. Also suitable for joining Alloys to steel, copper/nickel and other nickel alloys

International Standards

BS EN ISO 18274:2004	AWS A5.14-97
S Ni 6082 (NiCr20Mn3Nb)	ER NiCr-3

Typical Wire Analysis (wt%)

C	Si	Mn	Cr	Ni	Nb	Fe	Cu
0.010	0.4	3.0	20.0	Bal	2.4	0.9	0.1

Typical All-Weld Metal Mechanical Properties

Yield Strength N/mm²	Tensile Strength N/mm²	Elongation %	Impact Strength +20⁰C / -196⁰C
>380	>620	>35	>65 / >45

Welding Positions

All Positions including vertical down
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Materials

Inconel 600, ASTM B163 B166 B167 & B168, UNS N06600.

Packaging

Size mm	1.6	2.4	3.2
Plastic 5 kilo Tube	✓	✓	✓

Size mm	0.8	1.2	1.6
Metal spools 15 kilo	✓	✓	✓

Additional Information

Certification	BS EN 10204:2004 Type 3.1
Material safety data sheet	MSDS 10
BOC Shielding Gas MIG	Stainshield Light (<4mm) Universal (4-10mm) Heavy (>10mm)
BOC Shielding Gas TIG	Pureshield Argon or Alushield Universal