

80/20

TIG/GTAW wire

Product name	IABCO 80/20	
Classification EN ISO	18274:	~S Ni6076 - NiCr20 (Nearest)
Classification AWS	A5.14:	~ERNiCr-6 (Nearest)
Classification BS	2901 Part 5: NA34 (Obsolete specification)	
Approvals	-	
Applications	IABCO 80/20 is an 80%Ni-20%Cr alloy similar to the alloys used for heating elements. It finds uses in welding nickel base alloys where good thermal stability is required along with good oxidation and carburisation resistance. Applications include heat treatment furnaces, high temperature ducting and heating elements.	
Base materials	EN: 1.4862, 2.4816, 2.4951, 2.4630. UNS: N06075, N06600. Proprietary: Brightray, Incoloy DS, Inconel 600, Nimonic 75 (Special Metals).	
Typical analysis of wire, weight %	Ni:	Balance
	C:	0.01
	Si:	0.1
	Mn:	0.2
	Cr:	20.0
	Fe:	0.5
	Ti:	0.2
Typical procedure ⁽¹⁾	Weld joint cleanliness is important. Preheat: Not required for most applications. Interpass: 150°C. PWHT: Not required for most applications.	
Mechanical properties of weld deposit ⁽²⁾	Tensile strength, Rm:	560MPa.
	Elongation, 4d/5d:	>25%.
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.