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## ERNiCrCoMo-1

## MIG/GMAW and TIG/GTAW nickel base wire

Product name	IABCO ERNiCrCoMo-1	
Classification EN ISO	18274: SNi6617 (NiCr22Co12Mo9)	
Material No.	2.4627	
Classification AWS	A5.14: ERNiCrCoMo-1	
Applications	Nickel base wire, commonly referred to as alloy 617, which is used range of high temperature applications up to ~1100°C.	for a
	Uses include welding matching, and other heat-resisting nickel base (eg. alloy 800) for applications in furnaces and other high temper equipment. Other applications include: Dissimilar welds between base alloys, heat resistant alloys and high carbon heat resisting cas Surfacing of CMn and low alloy steels.	rature nickel
Base materials	Nickel base alloy 617: N06617, 2.4663, NiCr22Co12Mo9, Nicrofer 55 (Outokumpu VDM), Inconel™ 617 (Special Metals). High temperature nickel base alloys: 625, 601, N06625, N06601, N0 2.4851, 2.4856. Dissimilar welds: nickel alloys to low alloy/CrMo/stainless steel. High temperature alloys: heat resisting alloys, high carbon heat rescastings, alloy 800, HP40Nb, N08800, N08810, 1.4852, 1.4853, 1. 1.4958, 1.4876, 1.4889. Cladding: surfacing a wide range of steels.	6333, sistant
Typical analysis of wire, weight %	C:       0.08       Si:       0.1         Mn:       0.1       Cr:       22.0         Ni:       Balance       Mo:       9.0         Co:       12.0       Fe:       0.5         Al:       1.1       Ti:       0.3	
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%: 500MPa Tensile strength Rm: 750MPa Elongation 4d/5d: 40% Impact ISO-V, +20°C: 100J	
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.