



TIG NI601

Old reference: TIG Ni601

Classification

AWS A5.14 : ERNiCrFe-11

ISO 18274 : S Ni 6601 (NiCr23Fe15Al)

Description & Applications

Solid rod for GTAW of similar Nickel-Chrom-Iron-Aluminum alloys like alloy 601. Used in the construction of equipments submitted to high temperature up to 1150°C.

Main applications: Furnaces, heat treatment equipments.

Base materials :

UNS	Alloy	DIN	Material N°
N06600	600	NiCr15Fe	2.4816
N06601	601	NiCr23Fe	2.4851

Typical Chemical Composition (%)

	C	Si	Mn	Cr	Cu	P	S	Fe	Al	Ni	A/T
Min				21.0					1.0	58.0	
Max	0.10	0.50	1.0	25.0	1.0	0.03	0.015	20.0	1.7	63.0	0.50
Type	0.05	0.20	0.50	23.0	0.10	0.01	0.005	14.0	0.04	60.0	<0.50

All Weld Metal Mechanical Properties

	R _{p0.2} (MPa)	R _m (MPa)	A ₅ (%)	KV (J)
Min	-	-	-	-
Max	-	-	-	-
Type	-	-	-	-

Welding Current & Instructions

Welding mode	Shielding Gas
TIG = -	ISO 14175: I1 (Ar) : 6-12 l/min Back shielding : I1 (Ar) : 3-6 l/min

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