

NICROTIG 600

TIG Rods [GTAW]

Nickel alloys

CLASSIFICATION:	APPROVALS:	APPLICATION:
EN ISO 18274-A : S Ni 6082 (NiCr20Mn3Nb) DIN 1733 : SG NiCr20 Nb AWS A-5.14 : ER NiCr-3	CE, TUV	Power generation industry Constructions & Engineering Petrochemical and chemical industry

- Nickel based wire used for welding nickel alloys (such as alloy 600 and alloy 601) and for joining austenitic and ferritic steels operating at temperatures exceeding 300°C and for dissimilar joints.
- Connections of nickel alloy steels with austenitic steels, nickel alloys with ferritic steels and austenitic steels with ferritic steels.
- It is used in joints of dissimilar carbon-manganese steels and unalloyed steels.
- High resistance to oxidation at high temperatures. High resistances in sulfur-free atmospheres.
- Resistant to thermal shocks.
- It is not susceptible to brittleness, carbon diffusion at elevated temperatures is significantly inhibited.
- Corrosion resistant, fully austenitic, low coefficient of thermal expansion.

Application

Chemical industry: heaters, condensers, trays. Heat treatment industry: muffs, retorts, baskets, furnace accessories. Nuclear, aviation industry. Reactor vessels and heat exchanger tubes used in the production of vinyl chloride. Process equipment used in the production of chlorinated and fluorinated hydrocarbons. Seals, fans and retort furnace equipment. Roller furnaces and radiant tubes, especially in coal nitriding processes. Linings for barges and road tankers. Production of gasoline stabilizers, phenolic condensers, production of soap, vessels for the production of fatty acids. Industrial chemical evaporators, industrial acid and alkali equipment, afterburner parts and other components used in high temperature, vacuum furnace equipment, alkaline cookers, catalyst regenerators in chemical production. Consumable material for welding dedicated alloys, cryo steel, for welding dissimilar joints, hardfacing.

Base material

DIN	W.Nr.	ASTM	
NiCr20Ti	2.4630		
NiCr21TiAl	2.4631		
NiCr15Fe7TiAl	2.4669		
NiCr15Fe	2.4816	B168-Alloy 600	
LC-NiCr15Fe	2.4817	Alloy 600L	
NiCr23Fe	2.4851	Alloy 601(H)	
NiCr6015	2.4867		
NiCr8020	2.4869		
NiCr10	2.4870		
NiCr10Ti	2.4951	Alloy 75	
12Ni14	1.5637		
X8Ni9	1.5662		
12Ni19	1.5680		
X12CrNi 18 9	1.6900		
GX8CrNi 18 10	1.6901		
X10CrNiTi 18 10	1.6903		
X5CrNi 18 10	1.6906		
NiCr20TiAl	2.4952	Alloy 80A	
X10NiCrAlTi 32 20	1.4876	Alloy 800/800H	
X12NiCrSi 36 16	1.4864	330	

GX40NiCrNb 35 25			1.4852							
GX40NiCrSi 35 25			1.4857				HP			
Typical chemical composition %										
C 0,02	Si 0,20	Mn 2,8	C 19	r 9,5	Ni >67	Nb 2,5	Fe <2,0			
Typical mechanical properties										
Yield strength Re [N/mm2]				>380	>380					
Tensile strength Rm [N/mm2]				>620	>620					
Elongation A5 [%]				>35	>35					
Impact e	nergy Kv []]		>90J (2	20°C) /					
Shielding gases acc. to EN ISO 14175				11 - Ar / 13 - Ar + >0-95% He /						
Welding parameters and packing										
ø	ø				Length [mm]			Weight of packet [kg]		
1,6				1000 /				5,0		
2,0				1000 /				5,0		
2,4				1000 /				5,0		
4,0				1000 /				5,0		
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