NICROTIG 59

TIG Rods [GTAW]

Nickel alloys

CLASSIFICATION:	APPROVALS:	APPLICATION:
EN ISO 18274-A : S Ni6059, NiCr23Mo16 DIN 1736 : SG NiCr23Mo16 AWS A-5.14 : ER NiCrMo-13 W.Nr. : 2.4607		Power generation industry Petrochemical and chemical industry

- Outstanding resistance to a wide range of corrosive agents in both oxidizing and reducing environments.
- Excellent resistance to pitting and crevice corrosion and no chloride stress corrosion cracking.
- Excellent resistance to mineral acids such as nitric acid, phosphoric acid, sulfuric acid, hydrochloric acid, and in particular to sulfuric and hydrochloric acid mixtures and solutions.
- Excellent resistance to contaminated mineral acids.
- Good corrosion resistance to hydrochloric acid in the whole range of concentrations.
- Good weldability without susceptibility to hot cracking.

Application

It is suitable for a wide range of applications in chemical, petrochemical, power generation, and environmental engineering industries.

A typical application is: in organic chemistry processes with media containing chlorides, especially where chloride-based catalytic systems are used.

Multifunctional installations in the chemical industry, parts of chemical installations operating in the pharmaceutical industry.

Scrubers, heat exchangers, flaps, fans and agitators for flue gas desulfurization in fossil fuel power plants and waste incineration plants.

Washers for diesel engines.

Components for seawater and concentrated brines.

Equipment and components for geothermal and sour gas applications.

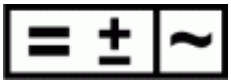
Acetic acid reactors, hydrofluoric acid reactors, sulfuric acid coolers.

Base material

DIN	W.Nr.	ASTM
NiCr23Mo16Al	2.4605	59
NiMo16Cr16Ti	2.4610	C-4
NiMo16Cr15W	2.4819	C-276
NiCr21Mo14W	2.4602	C-22
NiCr22Mo9Nb	2.4856	625
X1NiCrMoCuN25207	1.4529	904HMo
X1NiCrMoCuN25187	1.4574	
Suitable for welding duplex, super duplex, super austenitic stainless steels and nickel alloys.		

Typical chemical composition %

C	Si	Mn	Cr	Ni	Mo	Fe	Al
0,015	0,06	0,50	23,0	59,0	16,0	0,50	0,40

Typical mechanical properties	
Yield strength Re [N/mm2]	>450
Tensile strength Rm [N/mm2]	>720
Elongation A5 [%]	>35
Impact energy Kv [J]	>70J (20°C) /
Welding current	
Shielding gases acc. to EN ISO 14175	I1 - Ar / I3 - Ar + >0-95% He /

Welding parameters and packing

ø	Length [mm]	Weight of packet [kg]
1,6	1000 /	5,0
2,0	1000 /	5,0
2,4	1000 /	5,0
3,2	1000 /	5,0

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