

NICROMIG 59

MIG/MAG Wires [GMAW]

Nickel alloys

CLASSIFICATION: EN ISO 18274-A : S Ni6059, NiCr23Mo16 AWS A-5.14 : ER NiCrMo-13 W.Nr. : 2.4607	APPROVALS:	APPLICATION: Power generation industry Petrochemical and chemical industry
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- Alloy 59 grade for use in highly aggressive environments.
- A specially designed alloy composition of the filler metal: 59% Ni, 23% Cr, 16% Mo, along with a very low Fe content, was matched to the Alloy59 bonding.
- High Mo content, similar to Alloys C-276 and C-4, and increased to 23% Cr content, ensures even higher resistance in corrosive environments.
- It is ideal for joining materials with high Nb content, super duplex steels, stainless steels and nickel-based alloys.

Application

For dedicated materials. Exhaust gas scrubber components (exhaust gas desulfurization), pulp and paper industry (fermenters and bleachers), sulfuric acid coolers, seawater equipment, waste incineration plants, chemical, petrochemical and pharmaceutical industries (scrubbers, heat exchangers, dampers, wet fans and sprinklers). Equipment and components for geothermal and sour gas applications, acetic acid and acetic anhydride reactors, hydrofluoric acid reactors.

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	

Typical chemical composition %

C	Si	Mn	Cr	Ni	Mo	Fe	Al
0,015	0,06	0,50	23,00	59,00	16,00	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]	>70 J (20°C) /
Hardness	225HB /
Additional description	Microstructure of high-nickel austenite. Interstitch temperature 100[°C]. Heat introduced max 1 [kJ/mm]
Shielding gases acc. to EN ISO 14175	I1 - Ar / I3 - Ar + >0-95% He /

Welding parameters and packing

∅	Welding current [A]	Voltage [V]	Weight of packet [kg]
1,0	100-250	18-20	15,0

1,2

125-290

18-29

15,0

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