



CEWELD NiCrMo 59 Tig

TYPE Nickel-Chromium-Molybdenum based alloy for Tig welding

APPLICATIONS Applications of NiCrMo 59 Tig in aggressively corrosive media include scrubbers for flue gas desulphurization (FGD), digesters and papermaking equipment, chemical process plants, corrosion resistant overlays and in severe offshore and petrochemical environments.

PROPERTIES CEWELD NiCrMo 59 weld deposit composition of 59%Ni-23%Cr-16%Mo is designed to match the nickel base corrosion resistant alloy commonly known as alloy 59. The high level of Mo is similar to alloys C276 and C4 but performance in a wide range of more oxidizing media is significantly enhanced by increasing Cr to 23% in alloy 59. Total alloying exceeds the level typically present in alloy C22; it is therefore considered suitable for welding this group of alloys. Alloy 59 consumables also provide strong, tough Nb-free weld metal for dissimilar welds in Superaustenitic and Superduplex stainless steels or combinations of these with nickel base alloys. Some authorities do not allow or have discontinued use of 625 type consumables for such applications, where deleterious Nb-rich precipitates may form in diluted or partially mixed regions around the fusion boundary. Alloy C276 is possibly a more economic alternative depending on the required properties in this situation.

CLASSIFICATION

AWS	A 5.14: ERNiCrMo-13
EN ISO	18274: S Ni 6059(NiCr23Mo16)
W.Nr.	2.4607
F-nr	43
FM	6

SUITABLE FOR NiCr23Mo16Al, NiCr21Mo14W, NiCr23Mo16Al, NiMo16Cr15Ti, NiMo16Cr15W, NiMo16Cr16Ti, X2CrNiMnMoN 17-12-2, NiCr26MoW
2.4608, 2.4605, 2.4602, 2.4610, 2.4819, 2.4692, 1.4562, 1.4563, 1.4529, 1.4539, 1.4404
Duplex, Super-Duplex and Super-Austenitic Stainless steels,
Nickel alloys such as UNS N06059 and N06022, INCONEL alloy C4, C-276, and INCONEL alloys 622, C22, 625, and 686 CPT, Alloy 31, Alloy 59, Alloy 33

APPROVALS

WELDING POSITIONS



TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)

C	Si	Mn	Cr	Ni	Mo	Fe	Al
0.008	0.09	0.2	23	65	16	1	0.3

MECHANICAL PROPERTIES

Heat Treatment	R _{P0.2} (MPa)	R _m (MPa)	A ₅ (%)	Impact Energy (J) ISO-V		Hardness
				-196°C	RT	
As Welded	450	720	35	70	100	HRC

REDRYING Not required

GAS ACC. EN ISO 14175 I1



CEWELD NiCrMo 59 Tig

NICRMO 59 TIG 1,2 X
1000MM

Packaging	KG/unit	EanCode
Tube	5	8720663420381

NICRMO 59 TIG 1,6 X
1000MM

Packaging	KG/unit	EanCode
Tube	5	8720663420398

NICRMO 59 TIG 2,0 X
1000MM

Packaging	KG/unit	EanCode
Tube	5	8720663420404

NICRMO 59 TIG 2,4 X
1000MM

Packaging	KG/unit	EanCode
Tube	5	8720663420411

NICRMO 59 TIG 3,2 X
1000MM

Packaging	KG/unit	EanCode
Tube	5	8720663420428