



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.

CEWELD NiCrMo 59 weld deposit composition of 59%Ni-23%Cr-16%Mo is designed to match the **PROPERTIES**

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)

F-nr 43 FM 6 W.Nr. 2.4607

duplex, super-duplex and super-austenitic stainless steels, nickel alloys such as UNS N06059 and SUITABLE FOR

N06022, INCONEL alloy C4, C-276, and INCONEL alloys 622, C22, 625, and 686 CPT, Alloy 31, Alloy 59, 1.4562, 2.4605, 2.4602, 2.4610, 2.4819, NiCr21Mo14W, NiCr23Mo16Al, NiMo16Cr15Ti,

NiMo16Cr15W

APPROVALS No Approvals Found

WELDING POSITIONS

TYPICAL CHEMICAL

ANALYSIS OF THE FILLER METAL (%)

С	Si	Mn	Cr	Ni	Мо	Fe	Al
0.008	0.09	0.2	23	65	16	1	0.3

ALL WELD MECHANICAL **PROPERTIES**

Heat	R _{P0,2}	Rm	A5	Impact Energy (J) ISO-V
Treatment	MPa	MPa	(%)	-196°C
As Welded /	450	720	35	90

REDRYING TEMPERATURE Not required

GAS ACCORDING EN 14175





CEWELD NiCrMo 59 Tig

NICRMO 59 TIG 1,2 X	Type	KG/unit	EANCode	
1000MM	Tube	5	8720663420381	-
NICRMO 59 TIG 1,6 X	Type	KG/unit	EANCode	
1000MM	Tube	5	8720663420398	
NICRMO 59 TIG 2,0 X	Type	KG/unit	EANCode	
1000MM	Tube	5	8720663420404	
NICRMO 59 TIG 2,4 X	Type	KG/unit	EANCode	
1000MM	Tube	5	8720663420411	
NICRMO 59 TIG 3,2 X	Type	KG/unit	EANCode	
1000MM	Tube	5	8720663420428	