

CEWELD NiCrMo 686



TYPE

Nickel-Chromium-Molybdenum based alloy for gas metal arc welding

APPLICATIONS

NICrMo 686 is of great value for service environments requiring general corrosion-resistance in HCI or sulfuric acid; for resistance to crevice corrosion in hot, concentrated acid chloride solutions such as sulfur dioxide saturated NaCl solutions and oxidizing chloride solutions; and for resistance to intergranular attack, and for resistance to intergranular attack, after sensitization, in highly oxidizing environments.

PROPERTIES

NiCrMo 686 (UNS N06686/W.Nr. 2.4606) is a single-phase, austenitic Ni-Cr-Mo-W alloy offering outstanding corrosion-resistance in a range of severe environments. Its high nickel (Ni) and molybdenum (Mo) provide good resistance in reducing conditions, and high chromium (Cr) offers resistance to oxidizing media. Molybdenum (Mo) and tungsten (W) aid resistance to localized corrosion such as pitting. Iron (Fe) is closely controlled to enhance properties. Low carbon (C) helps minimize grain boundary precipitation to maintain corrosion-resistance in the heat-affected zones of welded joints. Resistance to general, pitting and crevice corrosion increases with the alloying (Cr+Mo+W) content, and NiCrMo 686 scores higher than competitive materials.

CLASSIFICATION

AWS A 5.14: ERNiCrMo-14

EN ISO 18274: S Ni 6686 (NiCr21Mo16W4)

F-nr 43 FΜ 6 W.Nr. ~2.4606

SUITABLE FOR

ENiCrMo-14, E Ni 6686 NiCr21Mo16W4

2.4602, 2.4605, 2.4607, 2.4610, 2.4819, 2.4656, 1.4529, 1.4547, 1.4565

NiCr23Mo16, NICr23Mo16Al, NiMo16Cr15Ti, NiMo16Cr16Ti, NiCr21Mo14W, NiMo16Cr15W, NiCr22Mo9Nb, Alloy 59, Alloy C4, Alloy 276, X1NiCrMoCuN25-20-7, X1CrNiMoCuN20-18-7

ASTM: C-4, C-276, C-22, 625, 904hMo

UNS: N06059, N06455, N10276, N06022, N06625, N08925, S31254

Duplex, Superduplex, super austenitic stainless steel, Nickel Alloys, N06059, N06022, Hastelloy

C276, Alloy C22, Inconel 622, 625, 686, Outokumpu 654 SMO,

APPROVALS

No Approvals Found

WELDING POSITIONS

PA	PB	PC	PD	PE	PF
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TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)

С	Si	Mn	Р	S	Cr	Ni	Мо	Ti	Fe	W	Cu	Al
0.03	0.06	0.3	0.002	0.001	21	58	16	0.1	0.8	3.5	0.01	0.23

ALL WELD MECHANICAL **PROPERTIES**

Heat	R _{P0,2}	Rm	A5	
Treatment	MPa	MPa	(%)	
As Welded /		760		

REDRYING TEMPERATURE

Not required

GAS ACCORDING EN 14175



CEWELD NiCrMo 686 CPT



NICRMO 686 CPT 0,8MM	Type	KG/unit	EANCode	
	BS-300	15	8720663419484	
NICRMO 686 CPT 1,0MM	Туре	KG/unit	EANCode	
	BS-300	15	8720663419507	
NICRMO 686 CPT 1,14MM	Туре	KG/unit	EANCode	
	BS-300	13,6	8720663419521	
NICRMO 686 CPT 1,6MM	Туре	KG/unit	EANCode	
	BS-300	15	8720663419538	