



CEWELD NiCrMo 686 CPT

TYPE	Nickel-Chromium-Molybdenum based alloy for gas metal arc welding												
TOEPASSINGEN	NiCrMo 686 is of great value for service environments requiring general corrosion-resistance in HCl 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.												
EIGENSCHAPPEN	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.												
CLASSIFICATIE	AWS	A 5.14: ERNiCrMo-14											
	EN ISO	18274: S Ni 6686 (NiCr21Mo16W4)											
	W.Nr.	~2.4606											
	F-nr	43											
	FM	6											
GESCHIKT VOOR	ENiCrMo-14, E Ni 6686 NiCr21Mo16W4 2.4602, 2.4605, 2.4606, 2.4607, 2.4610, 2.4819, 2.4656, 1.4529, 1.4547, 1.4565 NiCr23Mo16, NiCr23Mo16Al, NiCr21Mo16W, 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, N06625, N08925, S31254,N06686, N06022, N06059, N06200, N08367, N08926, N08031 Duplex, Superduplex, super austenitic stainless steel, Nickel Alloys, N06059, N06022, Hastelloy C276, Alloy C22, Alloy 59. Inconel 622, 625, 686, Outokumpu 654 SMO, Incoloy® Alloy 25-6MO, 27-7MO (Special Metals)												
GOEDKEURINGEN													
LASPOSITIES	     												
TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)	C	Si	Mn	P	S	Cr	Ni	Mo	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
MECHANISCHE WAARDEN	Heat Treatment	R _{P0.2} (MPa)	R _m (MPa)	A ₅ (%)	Impact Energy (J) ISO-V				Hardness				
					RT		-196°C						
	As Welded	450	760	40	100		80			HRc			
HERDROGEN	Not required												
GAS ACC. EN ISO 14175	I1, I3												



CEWELD NiCrMo 686 CPT

NICRMO 686 CPT 0,8MM

Packaging	KG/unit	EanCode
BS-300	15	8720663419484

NICRMO 686 CPT 1,0MM

Packaging	KG/unit	EanCode
BS-300	15	8720663419507

NICRMO 686 CPT 1,14MM

Packaging	KG/unit	EanCode
BS-300	13,6	8720663419521

NICRMO 686 CPT 1,6MM

Packaging	KG/unit	EanCode
BS-300	15	8720663419538