

CEWELD NiCrMo 686 **CPT Tig**



Cu

0.002

TYPE Nickel-Chromium-Molybdenum based alloy for Tig 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 Duplex, super-duplex and super-austenitic stainless steels, nickel alloys such as UNS N06059 and

N06022, INCONEL alloy C-276, and INCONEL alloys 622, C22, 625, and 686 CPT, Alloy 31, 1.4562,

Ni

58

Мо

16

Τi

0.06

alloy 59, alloy C4, C2000, W86026

APPROVALS No Approvals Found

WELDING POSITIONS

Р

TYPICAL CHEMICAL ANALYSIS OF THE FILLER

METAL (%)

0.006	0.03	0.25	0.004	0.001

Mn

Si

0.004 0.03 0.25

ALL WELD MECHANICAL **PROPERTIES**

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

S

Cr

20

REDRYING TEMPERATURE Not required

GAS ACCORDING EN 14175 11



CEWELD NiCrMo 686 CPT Tig



NICRMO 686 CPT TIG 1,6 X 1000MM	Type	KG/unit	EANCode	
	Tube	4,54	8720663419415	
NICRMO 686 CPT TIG 2,0 X 1000MM	Type	KG/unit	EANCode	
	Tube	5	8720663419422	
NICRMO 686 CPT TIG 2,4 X1000MM	Type	KG/unit	EANCode	
	Tube	5	8720663419439	
NICRMO 686 CPT TIG 3,2 X 1000MM	Type	KG/unit	EANCode	
	Tube	4,54	8720663419446	