

Datasheet NT05

Ni-Cr-Mo Filler Metal

www.specialmetalswelding.com

INCO-WELD® 686CPT® Filler Metal

INCO-WELD 686CPT Filler Metal is used for gas-tungsten-arc and gas-metal-arc welding of duplex, super-duplex and super-austenitic stainless steels, as well as nickel alloys such as UNS N06059 and N06022, INCONEL alloy C-276, and INCONEL alloys 22, 625, and 686. It is also capable of being used to deposit overlays of outstanding corrosion-resistance onto a range of steels. The high alloy levels (of Cr + Mo + W) result in increased resistance to pitting, crevice and general corrosion. INCO-WELD 686CPT Filler Metal 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, after sensitization, in highly oxidizing environments.

Specifications

AWS A 5.14 ERNiCrMo-14 (UNS N06686)

ASME II, Part C, SFA-5.14, ERNICrMo-14 (UNS NO6686)

ASMEIX, F-No.43

*(EN) ISO 18274 - SNi6686 (NiCr21Mo16W4)

*Supply to these specifications available upon request

For manufacture to ASME III (NCA3800, NB2400), and other specifications please refer your inquiry to the Technical Department prior to order placement.

Approvals

VdTUV 06808.00; 06809.00

Other approvals may be applicable. Please confirm details of current scope of approvals with the Technical Department prior to order placement.

Limiting Chemical Composition	Ni+Co	Cu		
Typical	Tensile Strength, psi	110,000		
Mechanical	MPa	758		
Properties	Elongation, (4d) %	35		

Filler metals available on spool and in cut straight lengths in a variety of sizes selected from the following diameters:

Availe	Available Product Forms								
mm	0.8	0.9	1.0	1.14	1.2	16	2.4	3.2	
	0.030	0.035	0.040	0.045	0.047	0.062	0.093	0.125	

Straight Lengths - 915 mm (36 in.) or 1000 mm (39 in.)

Rod Diam.	4.54 kg Tube				
2.4mm	SMT686CPT24				
3.2mm	SMT686CPT32				

TALARC Pty Ltd 10-16 Syme St Brunswick, Vic 3056

Ph. +61 3 9388 0588 Fax: +61 3 9388 0710 W: www.talarc.com E: sales@talarc.com