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EXECUTIVE 686CPT

NICKEL ALLOY

SOLID WIRE TECHNICAL DATA SHEET

DESCRIPTION

Executive 686CPT is a nickel-chromium-molybdenum alloy designed for welding alloys 625, C-276 along with duplex, super duplex and super austenitic stainless steels using TIG, MIG and SAW welding processes. This alloy is also used for weld overlay on parts subject to acid and acid chloride environments. The high alloy content of Executive 686CPT produces high strength weld material with excellent corrosion resistance, particularly pitting and crevice type corrosion.

Executive 686CPT filler metal is produced using high quality raw materials and tightly controlled chemistry to provide top quality, exceptionally clean wires that deliver the results fabricators demand.

APPLICATIONS & FEATURES

Executive 686CPT Filler Metal is used for welding duplex, super-duplex and super-austenitic stainless steels as well as alloys 22,59, 625, C-276 and 686.

Executive 686CPT can be used for weld overlay where general corrosion resistance is required including service environments containing hydrochloric or sulfuric acid along with oxidizing chloride and saline solutions.

ΤΥΡΙΟ	TYPICAL WIRE CHEMISTRY & MECHANICAL PROPERTIES										
С	Mn	Fe	Р	S	Si	Cu	Ni	Мо	Ti	Cr	
0.01	1.00	5.00	0.02	0.02	0.08	0.50	Bal	15.0	0.25	19.0	
Tensile	Tensile Strength: 110,000 PSI Min				Yield Stre	ngth:			Eloi	ngation:	35%

TYPICAL WELDING PARAMETERS

Process	Diameter	Voltage	Amperage	Gas Flow	Shielding Gas / Flux
GMAW - Short - Spray - Pulse	.035" .045" .045" .045"	17-20 19-22 30-32 18-20	70-90 75-160 190-250 120-150	30 to 50 CFH	100% Ar 75% Ar / 25% He 90% He / 7.5% Ar / 2.5% CO₂
GTAW	.045	Direct Current		30 to 40 CFH	100% Ar
SAW	.062" .093" .125"	28-32 28-33 29-34	250-280 275-350 350-450		NiCr-W Flux

STANDARD PACKAGING

GMAW (MIG)	33-lb wire baskets	500-lb Drum
GTAW (TIG)	10-lb plastic tube	40-lb box
SAW	60-lb wire coil 60-lb Acro Pak	



AWS/SFA 5.14, Class ERNiCrMo-14

