

MIG 17/4CU

Classification

AWS A5.9 : ER630 ISO 14343-A : G Z 17 4 Cu

Description & Applications

Solid wire for GMAW of stainless steels with similar chemical compositions like 17-4PH, X5CrNiCuNb17-4-4, XAS.

Main applications: Aerospace, marine pump and turbine, Repairing of turbine discs, turbine blades.

Typical Chemical Composition (%)										
	l c	Si	Mn	Cr	Ni	Мо	Cu	Nb	Р	S
Min		<u> </u>	0.25	16.00	4.5	1710	3.25	0.15	•	
Max	0.05	0.75	0.75	16.75	5.0	0.75	4.00	0.30	0.03	0.03
Type	0.02	0.40	0.50	16.1	4.7	0.10	3.5	0.20	0.02	0.005

All Weld Metal Mechanical Properties*

	R _{p0.2} (MPa)	R_{m} (MPa)	A ₅ (%)	KV	'(J)
Min		930	7	-	-
Max				-	-
Type	930	1030	10	-	-

^{*} After PWHT at 1020-1050°C/1h, followed by a precipitation hardening at 610-630°C/4h

Welding Current & Instructions

Wolding mode	Wire Ø	Welding p	Shiolding Goo	
Welding mode	(mm)	Current (A)	Voltage (V)	Shielding Gas
GMAW = +	0.8 1.0 1.2 1.6	70 - 180 80 - 220 150 - 320 220 - 380	18 - 26 18 - 28 22 - 32 24 - 34	ISO 14175: M12 (Ar+0.5-5%CO ₂) M13 (Ar+0.5-3%O ₂) 15-20 l/min

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