



TIG F17/0

Old reference: TIG 430

Classification

AWS A5.9 : ER430

ISO 14343-A : W 17

Description & Applications

Solid rod for GTAW of ferritic stainless steels with 17% Chromium content like grade 430. Used for assembly or hardfacing. Good oxidation resistant up to 900°C in sulfurous gases used for chemneys. Resistant to atmosphere corrosion, water corrosion and light acids with service temperature up to +450°C.

Main applications: Harfacing of piping systems, surfacing of fittings and valves.

Typical Chemical Composition (%)

	C	Si	Mn	Cr	Ni	Mo	Cu	Nb	P	S	Co
Min				16.0				-			-
Max	0.10	0.5	0.6	17.0	0.5	0.5	0.5	-	0.03	0.02	-
Type	0.05	0.40	0.50	16.5	0.30	0.10	0.08	0.01	0.02	0.01	0.05

All Weld Metal Mechanical Properties*

	R _{p0.2} (MPa)	R _m (MPa)	A ₅ (%)	KV (J)
Min	300	450	20	-
Max				-
Type	320	470	22	-

* After PWHT at 760°C/2h

Welding Current & Instructions

Welding mode	Shielding Gas
TIG = -	ISO 14175 : I1 (Ar) 6-12 l/min Back shielding: I1 (Ar) / N1 (Nitrogen) : 3-6 l/min