

TIGWELD 316L (N)

TIG Rods [GTAW]

Stainless and high alloyed steels

CLASSIFICATION:	APPROVALS:	APPLICATION:							
EN ISO 14343-A : W 19 12 3 L AWS A-5.9 : ER 316L W.Nr. : 1.4430		Power generation industry Petrochemical and chemical industry							
• Solid GTAW rod with low Co (<0.05%) content, for welding 316 stainless steels in the power industry • Meets typical requirments for nuclear power applications in the "SAFETY" and "NON-SAFETY" areas • The weld is characterized by high metallurgical purity and resistance to general and intergranular corrosion. • Can be used in more aggressive acid environments • Good resistance to chloride pitting corrosion									
Application									
Installations and devices in nuclear power, tanks, chemical equipment in the pulp, chemical-pharmaceutical, food and power industries									
Base material									
EN 10088-1/2 EN 10213-4	W.Nr.	AISI/ASME							
X2CrNiMo17 12 2	1.4404	316L; CF-3M							
X2CrNiMoN17 11 2	1.4406	316LN							
X4CrNiMo17 12 2	1.4401	316							
X2CrNiMoN17 13 3	1.4429								
X2CrNiMo18 14 3	1.4435	316L							
X4CrNiMo17 13 3	1.4436								
X6CrNiMoTi17 12 2	1.4471	316Ti							
X6CrNiMoNb17 12 2	1.4580	316Cb							
X10CrNiMoNb 18 12	1.4583								
Typical chemical composition %									
C <0,02	Si 0,40	Mn 1,80	Cr 18,50	Ni 12,50	Mo 2,60	N 0,05	Cu <0,25	Co ≤0,05	P <0,025
S <0,02									
Typical mechanical properties									
Yield strength Re [N/mm2]			>320						
Tensile strength Rm [N/mm2]			>510						
Elongation A5 [%]			>25						
Impact energy Kv [J]			>60 J (20°C) /						
Ferrite content			FN <8						
Welding current									



Welding position acc. to EN ISO 14175

I1 - Ar /

Remarks

The product is subject to a special order, production, delivery and certification procedure. Before placing an order, the detailed terms of order and delivery should be confirmed in the Sales Department of Metalweld-Fiprom Polska, Sosnowiec.

Welding parameters and packing

Ø	Length [mm]	Weight of packet [kg]
1,6	1000 /	5,0
2,0	1000 /	5,0
2,4	1000 /	5,0
3,2	1000 /	5,0

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