



TIG 317 L



Standards

AWS 5.9
ER 317L

EN ISO 14343-A
W 19 13 4 L

W. Nr.
1.4438

Description & applications

Filler metal in solid wire sticks for TIG welding of austenitic stainless steels with high Molybdenum content type 317L, 316L ou similar. The high Molybdenum content insures a very good resistance to localized corrosion such as pitting & crevice corrosion, particularly in the presence of chlorides. Grade 317L is frequently used in the aggressive environments of petrochemical and pulp & paper industries. Also, this grade exhibits a good creep resistance up to 400 °C .

Typical chemical composition(%)

Cmax	Mn	Si	Cr	Ni	Mo	S max	P max	Fe
0.02	1.7	0.5	19.0	13.5	3.5	0.02	0.02	Base

Typical mechanical properties of all-weld metal

Rm	Rp 0,2	A5	KV-196°C
600 MPa	400 MPa	37 %	50 J

Operating parameters

Shielding gas recommendations :

EN ISO 14175 II : 100 % Argon : 6-12 l/mn Root : Argon, Nitrogen : 3-6 l/mn

