CEWELD 317L Tig

certilas® THE FILLER METAL SPECIALIST

TYPE

Solid stainless steel Tig welding wire with high Molybdenium content.

APPLICATIONS

For welding stabilized and un-stabilized CrNiMo(N) type of steels with high corrosion resistance. Also suitable for dissimilar welds between steel and stainless steel or dissimilar stainless steels. 317L has good resistance to general corrosion and pitting due to its high content of molybdenum. The alloy has a low carbon content which makes it particularly recommended when there is a risk of intergranular corrosion. The alloy is used in severe corrosion conditions such as in the petrochemical, pulp, cotton and paper industries.

PROPERTIES

Austenitic, non magnetic stainless steel alloy with high mechanical properties and excellent weldabillity, corrosion resistance is better than AISI 316 due to the high Mo. content. Suitable for use up to 400°C

CLASSIFICATION

AWS	A 5.9: ER317L
EN ISO	14343-A: W 18 15 3 L
F-nr	6
FM	5
W.Nr.	1.4438

SUITABLE FOR

Designed for joining corrosion resistant CrNiMoN steel as well as for austenitic-ferritic joints.
ISO 15608: 8.1 Austenitic ≤ 19 % Cr , TÜV 1000: Gr. 26, 27, 28
1.4429, 1.4434, 1.4435, 1.4436, 1.4438, 1.4439, 1.4453, 1.4583,
X2CrNiMoN 17 13 5, X2CrNiMoN 17 13 3, X2CrNiMo 18 15 4, X10CrNiMoNb 18 12, X2CrNiMoN17-13-3, X2CrNiMoN18-12-4, X2CrNiMo18-14-3, X3CrNiMnMoN19-16
UNS S31600, S31653, S31703, S31726, S31753
AISI 316Cb, 316L, 316LN, 317L, 317LN, 317LMN

APPROVALS

CE

WELDING POSITIONS

TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)

C	Si	Mn	P	S	Cr	Ni	Mo	Cu
0.01	0.4	1.5	0.02	0.01	18.8	13.6	3.5	0.13

ALL WELD MECHANICAL PROPERTIES

Heat Treatment	$R_{P0,2}$ MPa	Rm MPa	A5 (%)	Impact Energy (J) ISO-V RT	Impact Energy (J) ISO-V -40°C
As Welded /	480	580	35	140	65

REDRYING TEMPERATURE

Not required

GAS ACCORDING EN 14175

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317L TIG 1,6 X 1000MM

Type	KG/unit	EANCode
Tube	5	8720663415295

317L TIG 2,0 X 1000MM

Type	KG/unit	EANCode
Tube	5	8720663415301

317L TIG 2,4 X 1000MM

Type	KG/unit	EANCode
Tube	5	8720663415325

317L TIG 3,2 X 1000MM

Type	KG/unit	EANCode
Tube	5	8720663415332