



CEWELD 316L

TYPE Solid stainless steel welding wire. (Type 19 12 3 L, 316L)

APPLICATIONS CEWELD® 316L is suitable for joining and overlay welding on similar and dissimilar, non-stabilized austenitic CrNi(N) and CrNiMo(N) cast steel grades and steels. Its corrosion resistance is similar to that of similar, low-carbon, stabilized austenitic 17Cr-12Ni-2Mo steels.
The wire is widely used in the chemical and food processing industries, in shipbuilding, and in various architectural structures.

PROPERTIES CEWELD® 316L exhibits excellent toughness down to -196 °C (-323 °F), very good wetting and conveying properties, and outstanding resistance to intergranular and wet corrosion up to 350 °C (662 °F). Its corrosion resistance is comparable to that of low-carbon CrNiMo steels and cast steel grades. Max. operating temperature: 400 °C (725°F).

CLASSIFICATION

AWS	A 5.9: ER316L
EN ISO	14343-A: G 19 12 3 L
W.Nr.	1.4430
F-nr	6
FM	5

SUITABLE FOR **ISO 15608: 8.1 Austenitic ≤ 19 % Cr**
 1.4301, 1.4303, 1.4306, 1.4308, 1.4311, 1.4401, 1.4404, 1.4406, 1.4408, 1.4429, 1.4435, 1.4436, 1.4438, 1.4439, 1.4541, 1.4550, 1.4552, 1.4571, 1.4580, 1.4581, 1.4583, 1.4941, 1.4948, 1.4949, 1.4961, 1.6900, 1.6901, 1.6902, 1.6903
 X102CrNiMoNb 18 12, X2CrNiMo 18 14 3 (TP), X4CrNiMo 17 13 3, X2CrNiMo 17 12 2 (TP), X 5CrNiMo 19 11 2, X4CrNiMo 17 12 2 (TP), X6CrNiMo 17 12 2, X6CrNiMoNb 17 12 3, X2CrNiMoN 17 12 3 (TP), X2CrMoTi18-2
 316Cb, 316L, 316LN, 316H, 316, 316Ti, 316Cb, 316LN, 444
 S31640, S31603, S31653, S31600, S31630, S44400

APPROVALS CE

WELDING POSITIONS



TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)

C	Si	Mn	Cr	Ni	Mo
0.02	0.5	1.5	19	12	2.8

MECHANICAL PROPERTIES

Heat Treatment	R _{p0.2} (MPa)	R _m (MPa)	A ₅ (%)	Impact Energy (J) ISO-V		Hardness
				RT	-196°C	
As Welded	430	590	35	100	45	HRc

REDRYING Not required

GAS ACC. EN ISO 14175 M11, M13, M12



CEWELD 316L

316L 0,8MM

Packaging	KG/unit	EanCode
D-200	5	8720682050071

316L 1,2MM

Packaging	KG/unit	EanCode
BS-300	15	8720663413543

316L 2,0MM

Packaging	KG/unit	EanCode
BS-300	15	8720663413598