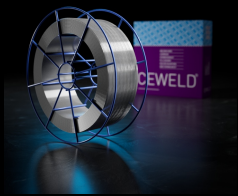


CEWELD 316LMn

TYPE	Solid welding wire for welding fully austenitic CrNiMnMo stainless steels and low temperature steels.(Type 19 12 3Mn, 1.4455)						
APPLICATIONS	CEWELD® 316LMn is designed for joining and surfacing of similar and matching austenitic CrNi(N) and CrNiMo(Mn,N) steels / cast steel grades with 16 - 21% Cr, 6 - 13% Ni, and 3% Mo. It is particularly suitable for corrosion conditions in urea synthesis plants.						
PROPERTIES	CEWELD® 316LMn offers excellent resistance to intergranular and wet corrosion at temperatures up to 350°C. Its corrosion resistance is comparable to low-carbon CrNiMo(Mn,N) steels and cast steel grades. The material is seawater resistant and exhibits good resistance to nitric acid, with a maximum selective attack of 200 µm. The weld metal is non-magnetic (Permeability in a field of 8000 A/m is 1.01 max.). To ensure the integrity of the weld and material properties, the following parameters must be observed: • Heat Input: Maximum 1.5 kJ/mm. • Interpass Temperature: Maximum 100°C. • Preheating: For surfacing (cladding), preheat to 150°C in accordance with the base material requirements. • Stress Relieving: Can be performed at 510°C for up to 20 hours. • Tempering: Before the final layer, tempering can be done at a maximum of 530°C.						
CLASSIFICATION	AWS	A 5.9: ER316LMn					
	EN ISO	14343-A: G 20 16 3 Mn N L					
	W.Nr.	1.4455					
	F-nr	6					
	FM	5					
SUITABLE FOR	ISO 15608: 8.1 Austenitic ≤ 19 % Cr 1.3941, 1.3945, 1.3948, 1.3951, 1.3952, 1.3953, 1.3955, 1.3964, 1.3965, 1.4315, 1.4401, 1.4404, 1.4411, 1.4429, 1.4435, 1.4438, 1.4439, 1.4449, 1.4561, 1.4571, 1.6902, 1.6903, 1.6905, 1.5662, X5 CrNiMo 17-12-2, X2CrNiMoN 22-15, X2CrNiMoN 18-14-3, X2CrNiMo 18-15, X8 CrMnNi 18-8, X2 CrNiMo 17-13-2, X2 CrNiMo 18-14-3, X2CrNiMoN 17-13-3, X6 CrNiMoTi 17-12-2, X2 CrNiMoN 17-13-5, X3 CrNiMo 18-12-3, X2 CrNiMo 18-15-4, X2 CrNiN 18-10, GX6 CrNi 18-10, GX5 CrNiNb 18-10, X5CrNiN19-9, X1CrNiMoTi18-13-2, 10CrNiTi18-10, (G)X4CrNi18-3, X2CrNiN18-13, X4CrNiMnMoN19-13-8, UNS S31600, S31603, S31635, S31700, S31703, S30453 AISI 316, 316L, 316Ti, 317, 317L, 304LN 3,5 – 5% Ni-Steel						
APPROVALS	CE						
WELDING POSITIONS							
TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)	C	Si	Mn	Cr	Ni	Mo	N
	0.015	0.5	7	20	17	3	0.01
MECHANICAL PROPERTIES	Heat Treatment	R _{P0,2} (MPa)	R _m (MPa)	A ₅ (%)	Impact Energy (J) ISO-V		Hardness
					-196°C		
	As Welded	430	650	35	50		HRc
REDRYING	Not required						
GAS ACC. EN ISO 14175	M11, M13, M12						



CEWELD 316LMn

316LMN 1,2MM

Packaging	KG/unit	EanCode
BS-300	15	8720663424587