



# CEWELD 316H

TYPE	Solid stainless steel welding wire with high carbon content. (Type 19 12 3 H, 1.4403)							
APPLICATIONS	<p>CEWELD® 316H exhibits corrosion resistance similar to matching, stabilized, austenitic 17Cr-12Ni-2Mo steels. It is specifically designed for high-temperature service ( 500-800°C) under long-term creep conditions.</p> <p><b>CEWELD 316H is intended for welding:</b> Steam pipelines and superheater headers, Furnace parts, Specific gas and steam turbine components, Applications in the petrochemical industry, Fossil-fuelled and nuclear power plants.</p>							
PROPERTIES	<p>CEWELD® 316H is designed for welding austenitic 316/316H steels at high temperatures ( 500-800°C) under long-term creep conditions. This filler metal can also be used for welding 321/321H and 347/347H in high-temperature applications. This is particularly important for thick, highly restrained weld joints, as the risk of premature failure due to intergranular HAZ (Heat Affected Zone) cracking is reduced by using more ductile weld metal instead of 347H.</p>							
CLASSIFICATION	AWS	A 5.9: ER316H						
	EN ISO	14343-A: G 19 12 3 H						
	W.Nr.	1.4403						
	F-nr	6						
	FM	5						
SUITABLE FOR	<p><b>ISO 15608: 8.1 Austenitic ≤ 19 % Cr</b></p> <p>1.4401, 1.4404, 1.4409, 1.4429, 1.4432, 1.4435, 1.4436, 1.4571, 1.4580, 1.4583, 1.4919 X5CrNiMo17-12-2, X2CrNiMo17-12-2, GX2CrNiMo19-11-2, X2CrNiMo17-12-3, X2CrNiMo17-12-3, X2CrNiMo18-14-3, X3CrNiMo17-12-3, X6CrNiMoTi17-12-2, X6CrNiMoNb17-12-2, X10CrNiMoNb18-12 UNS S31600, S31603, S31635, S31640, S31653 AISI 316L, 316Ti, 316Cb, 347, 347H, 321, 321H, CF10M, BS 316S51, 316S52, 316S53, 316C16, 316C71</p>							
APPROVALS	CE							
WELDING POSITIONS								
TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)	C	Si	Mn	Cr	Ni	Mo		
	0.06	0.5	1.8	19	13	2.5		
MECHANICAL PROPERTIES	Heat Treatment	$R_{P0,2}$ (MPa)	Rm (MPa)	A5 (%)	Hardness			
	As Welded	450	650	35	HRc			
REDRYING	Not required							
GAS ACC. EN ISO 14175	M11, M13, M12							



# CEWELD 316H

316H 1,0MM

	Packaging	KG/unit	EanCode
	BS-300	15	8720663414878

316H 1,2MM

	Packaging	KG/unit	EanCode
	BS-300	15	8720663414915