









# CEWELD 316H

TYPE	Solid stainless steel welding wire with high carbon content. (Type 19 12 3 H, 1.4403)					
APPLICATIONS	<p><b>CEWELD® 316H</b> exhibits corrosion resistance similar to matching, stabilized, austenitic <b>17Cr-12Ni-2Mo</b> steels. It is specifically designed for high-temperature service ( <b>500-800°C</b>) 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><b>CEWELD® 316H</b> is designed for welding austenitic 316/316H steels at high temperatures ( <b>500-800°C</b>) 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 <b>HAZ (Heat Affected Zone)</b> 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> 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, X2CrNiMoN17-12-3, 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	<div></div>					
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 <sub>P0,2</sub> (MPa)	R <sub>m</sub> (MPa)	A <sub>5</sub> (%)	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