



# CEWELD 318Si Tig

TYPE	Solid stabilized stainless steel TIG rod with high Mo content																		
APPLICATIONS	CEWELD® 318Si Tig is ideal for joining and overlay welding of identical or similar austenitic CrNi(N) and CrNiMo(N) steel grades as well as cast steel alloys. It is ideal for welding titanium- or niobium-stabilized austenitic stainless steels containing molybdenum. It is suitable for structures in the chemical industry, such as apparatus and containers, which are exposed to operating temperatures of approximately -120 °C to 400 °C.																		
PROPERTIES	CEWELD® 318Si Tig exhibits excellent corrosion resistance, as required in the chemical industry at temperatures up to 400°C, with good weldability and excellent flow properties due to its increased silicon content.																		
CLASSIFICATION	AWS                      A 5.9: ~ER318 EN ISO                  14343-A: W 19 12 3 Nb Si W.Nr.                    1.4576 F-nr                      6 FM                        5																		
SUITABLE FOR	1.4301, 1.4306, 1.4401, 1.4404, 1.4408, 1.4420, 1.4435, 1.4436, 1.4541, 1.4550, 1.4571, 1.4573, 1.4580, 1.4581, 1.4583 X 6 CrNiMoTi 17 12 2, X10 CrNiMoTi 18 12, X 6 CrNiMoNb 17 12 2, G-X 5 CrNiMoNb 18 10, X 10 CrNiMoNb 18 12, X 5 CrNiMo 18 11, X 2 CrNiMo 17 13 2, G-X 2 CrNiMo 18 10, X 2 CrNiMo 18 14 3, X 5 CrNiMo 17 12 2, G-X 6 CrNiMo 18 10, X 5 CrNiMo 17 13 3 UNS S31600, S31603, S31635, S31640, S31653, AISI 316, 316L, 316Ti, 316Cb																		
APPROVALS	TÜV: (12391), CE, DB: (43.206.03)																		
WELDING POSITIONS																			
TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>C</th> <th>Si</th> <th>Mn</th> <th>P</th> <th>S</th> <th>Cr</th> <th>Ni</th> <th>Mo</th> <th>Nb</th> </tr> </thead> <tbody> <tr> <td>0.05</td> <td>1</td> <td>2</td> <td>0.01</td> <td>0.01</td> <td>19</td> <td>13</td> <td>2.8</td> <td>0.6</td> </tr> </tbody> </table>	C	Si	Mn	P	S	Cr	Ni	Mo	Nb	0.05	1	2	0.01	0.01	19	13	2.8	0.6
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		RT	-60°C																
As Welded	460	615	35	100	70	HRC													
REDRYING	Not required																		
GAS ACC. EN ISO 14175	I1																		



# CEWELD 318Si Tig

318SI TIG 0,8 X 1000MM	Packaging	KG/unit	EanCode
	Tube	5	8720663415189
318SI TIG 1,0 X 1000MM	Packaging	KG/unit	EanCode
	Tube	5	8720663415172
318SI TIG 1,6 X 1000MM	Packaging	KG/unit	EanCode
	Tube	5	8720663415196
318SI TIG 2,0 X 1000MM	Packaging	KG/unit	EanCode
	Tube	5	8720663415202
318SI TIG 2,4 X 1000MM	Packaging	KG/unit	EanCode
	Tube	5	8720663415226
318SI TIG 3,2 X 1000MM	Packaging	KG/unit	EanCode
	Tube	5	8720663415233
318SI TIG 4,0 X 1000MM	Packaging	KG/unit	EanCode
	Tube	5	8720663415240