CEWELD 318Si Tig

certilas® THE FILLER METAL SPECIALIST

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 (%)

C	Si	Mn	P	S	Cr	Ni	Mo	Nb
0.05	1	2	0.01	0.01	19	13	2.8	0.6

MECHANICAL PROPERTIES

Heat Treatment	$R_{P0,2}$ (MPa)	Rm (MPa)	A5 (%)	Impact Energy (J) ISO-V		Hardness
				RT	-60°C	
As Welded	460	615	35	100	70	HRc

REDRYING

Not required

GAS ACC. EN ISO 14175

I1

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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