

## **CEWELD SA 318**



TYPE Solid stainless steel welding wire for submerged arc welding stabilized stainless steels with high

Mo content

APPLICATIONS The alloy is widely used in the chemical and food-processing industries, as well as in shipbuilding.

Suitable for welding stabilized corrosion-resistant Cr-Ni-Mo steels for working temperatures up to

400°C.

PROPERTIES CEWELD® SA 318 is engineered to a very precise analysis to create a weld deposit of high purity,

superior hot cracking and corrosion resistance. CVN toughness down to  $-120\,^{\circ}$ C, resistant to intergranular corrosion up to 400  $^{\circ}$ C. Flux CEWELD® FL 838 or fused flux CEWELD® FL 880

CLASSIFICATION AWS A 5.9: ER318

EN ISO 14343-A: S 19 12 3 Nb

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 CE

WELDING POSITIONS



TYPICAL CHEMICAL ANALYSIS OF THE FILLER

METAL (%)

С	Si	Mn	Р	S	Cr	Ni	Мо
0.035	0.5	1.6	0.02	0.02	19	12.5	2.75

MECHANICAL PROPERTIES

Heat	R <sub>P0,2</sub> (MPa)	Rm (MPa)	A5 (%)	Impact Energy (J) ISO-V		
Treatment				RT	-110°C	Hardness
As Welded	390	590	30	110	47	HRc

REDRYING Not required

**GAS ACC. EN ISO 14175**