certilas® THE FILLER METAL SPECIALIST

CEWELD Ultra Clean III

TYPE

High strength, Copper free, Low fume ER 70S-6 welding wire for high demanding structures up-to 460 MPa Yield strength.

APPLICATIONS

CEWELD® Ultra Clean III can be used universally in tank, boiler and general steel construction as well as in shipbuilding and pipeline construction...

PROPERTIES

CEWELD Ultra Clean III offers the lowest fume emissions on the market and is classed as copper-free wire with max. 0,03 % Copper. This extreme low friction welding wire thanks its arc stability to a special industrial lubricant that stabilizes the arc and at the same time lowers friction in the torch with more than 50% compared to copper plated welding wire. CEWELD Ultra Clean III offers remarkable sub-zero impact properties down to -60°C due to its clean pure weld metal analysis that produces practically no silicates.

CLASSIFICATION

AWS	A 5.18: ER 70S-6
EN ISO	14341-A: G 46 5 M21 4Si1
EN ISO	14341-A: G 42 4 C1 4Si1
F-nr	6
FM	1

SUITABLE FOR

Reh ≤ 460 MPa (67 ksi) ISO 15608: 1.2, 1.3, 2.1 (Mix gas)
1.5637, 1.6217, 1.6228, 1.0044-1.09821.0035 - 1.0570, 1.0345, 1.0425, 1.0481, 1.0308 - 1.0581, 1.0307 - 1.0582, 1.0440, 1.0472, 1.0475, 1.0416 to 1.0551
10Ni14, 12Ni14, 13MnNi6-3, 15NiMn6,
S235JR-S355JR, S235JO-S355JO, S450JO, S235J2-S355J2, S275N-S460N, S275M-S460M, P235GH-P355GH, P275NL1-P460NL1, P215NL, P265NL, P355N, P285NH-P460NH, P195TR1-P265TR1, P195TR2-P265TR2, P195GH-P265GH, L245NB-L415NB, L450QB, L245MB-L450MB, GE200-GE240,
A, B, D, E, A 32-E 36
ASTM A 106 Gr. A, B, C; A 181 Gr. 60, 70; A 283 Gr. A, C; A 285 Gr. A, B, C; A 350 Gr. LF1; A 414 Gr. A, B, C, D, E, F, G; A 501 Gr. B; A 513 Gr. 1018; A 516 Gr. 55, 60, 65, 70; A 573 Gr. 58, 65, 70; A 588 Gr. A, B; A 633 Gr. C, E; A 662 Gr. B; A 711 Gr. 1013; A 841 Gr. A; API 5 L Gr. B, X42, X52, X56, X60, X65
Domex 315-460MC,MC Plus, ML

APPROVALS

CE TÜV (20200) DB (42.206.04)

WELDING POSITIONS

TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%)

C	Si	Mn	P	S	Cr	Ni	Mo	Cu
0.08	0.88	1.7	0.01	0.01	0.01	0.025	0.01	0.01

ALL WELD MECHANICAL PROPERTIES

Heat Treatment	$R_{P0,2}$ MPa	Rm MPa	A5 (%)	Impact Energy (J) ISO-V 0°C	-50°C	-60°C
As Welded /	490	620	26	130	90	70

REDRYING TEMPERATURE

Not required

GAS ACCORDING EN 14175

M21, C1

CEWELD Ultra Clean III

certilas® THE FILLER METAL SPECIALIST

ULTRA CLEAN III 1,0MM

Type	KG/unit	EANCode
BS-300	16	8720682051337
Drum	250	8720682051375

ULTRA CLEAN III 1,2MM

Type	KG/unit	EANCode
BS-300	16	8720682051344
Drum	250	8720682051382