CEWELD Ultra Clean III

certilas® THE FILLER METAL SPECIALIST

TYPE

Copper free solid wire for welding steels up to 460MPa 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...
Due to its metallurgical purity and nickel content of less than 1%, CEWELD® UltraClean III meets most NACE standards for sour gas applications.

PROPERTIES

CEWELD® Ultra Clean III has one of the lowest fume emissions of any welding wire on the market. As a virtually copper-free wire with a maximum of 0.03% copper, it is very environmentally friendly to manufacture and use. But what really sets it apart is the protection of the welder's health, as exposure to copper during welding is virtually eliminated. Arc stability is improved by a special coating which also reduces friction in the torch by approximately 50% compared to copper coated welding wire. The weld is virtually free of silicates, minimising the need for rework. CEWELD® Ultra Clean III offers excellent impact properties down to -60°C due to the pure weld metal analysis.

CLASSIFICATION

AWS	A 5.18: ER 70S-6
EN ISO	14341-A: G 46 5 M21 4Si1, 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 M2, M3)
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), Lloyds: in progress, DNV: in progress

WELDING POSITIONS

TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)

C	Si	Mn	P	S	Cr	Ni	Mo	Cu
0.08	0.8	1.7	0.012	0.015	0.01	0.025	0.01	0.01

MECHANICAL PROPERTIES

Heat Treatment	$R_{P0,2}$ (MPa)	Rm (MPa)	A5 (%)	Impact Energy (J) ISO-V -50°C	Hardness
As Welded	520	612	26	103	HRc

REDRYING

NA

CURRENT TYPE:

DC+

GAS ACC. EN ISO 14175

M20, M21, C1

CEWELD Ultra Clean III

ULTRA CLEAN III 0,8MM

Packaging	KG/unit	EanCode
D-200	5	8720682051610
BS-300	16	8720682051603
Drum	250	8720682051597

ULTRA CLEAN III 1,0MM

Packaging	KG/unit	EanCode
D-200	5	8720682051566
BS-300	16	8720682051337
Drum	250	8720682051375

ULTRA CLEAN III 1,2MM

Packaging	KG/unit	EanCode
D-200	5	8720682051559
BS-300	16	8720682051344
Drum	250	8720682051382