

# CEWELD AquaForce HR

**TYPE** CEWELD® AquaForce HR is a high deposition electrode for wet under water welding. ( Type E 7014 )

**APPLICATIONS** Welding standard ship steel grades A, B & D in submerged condition according the requirements of AWS D3.6M. Developed for joining anodes to under water objects, plate doubling in ship repair, sealing sheet, pile profiles etc. Tested up to a water depth of 20m

**PROPERTIES** CEWELD® AquaForce HR is a high recovery underwater electrode that is double coated to provide maximum resistance to moisture. CEWELD® AquaForce HR is capable of producing beautiful flat filled welds with deep penetration without porosity. Filled welds exceeding an A-height of 4,0 mm are easy to achieve in one single layer for high productivity. CEWELD® AquaForce HR can be used in all positions, especially suitable for vertical down (PG) position.

**CLASSIFICATION**

AWS	A 5.1: E 7014
AWS	A 5.35: UWA 7014 1A
EN ISO	2560-A: E 42 0 R 4 1
DIN	2302: E 42 0 Z R 10 fr (PA,PB,PC,PD,PE,PG)

**SUITABLE FOR** **Reh ≤420 MPa (60 ksi) ISO 15608: 1.1, 1.2**  
 1.0035, 1.0570, 1.0461,1.0562, 1.4620,1.0565, 1.0345, 1.0425, 1.0481, 1.0308 to 1.0581, 1.0307, 1.0582, 1.0440, 1.0472, 1.0475, 1.0476, 1.0416, 1.0551  
 S235JR-S355JR, S235JO-S355JO, S235J2-S355J2, S275N-S420N, S275M-S420M, P235GH-P355GH, P355N, P285NH-P420NH, P195TR1-P265TR1, P195TR2-P265TR2, P195GH-P265GH, L245NB-L415NB, L245MB-L415MB, GE200-GE240  
 ASTM: A 106 Gr. A, B, C; A 181 Gr. 60, 70; A 283 Gr. A, C; A 285 Gr. A, B, C; A 414 Gr. A, B, C, D, E, F, G; A 501 Gr. B; A 516 Gr. 55, 60, 65, 70; A 573 Gr. 58, 65, 70; A 588 Gr. A, B; A 633 Gr. A, C, D; A 662 Gr. A, B, C; A 678 Gr. A, B; A 711 Gr. 1013; API 5 L Gr. B, X42, X52, X56, X60

**APPROVALS** CE

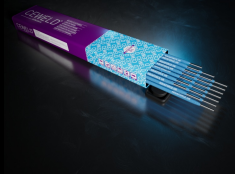
**WELDING POSITIONS**

TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%)	C	Si	Mn	P	S
	0.075	0.6	0.75	0.025	0.025

ALL WELD MECHANICAL PROPERTIES	Heat Treatment	R <sub>P0,2</sub> MPa	R <sub>m</sub> MPa	A <sub>5</sub> (%)	Impact Energy (J) ISO-V	
	As Welded /	480	580		RT	0°C
					58	42

**REDRYING TEMPERATURE** Not required

**GAS ACCORDING EN 14175**



# CEWELD AquaForce HR

AQUAFORCE HR 4,0 X  
350MM

Type	KG/unit	EANCode
Can	3	8720663400031

AQUAFORCE HR 4,0 X  
450MM

Type	KG/unit	EANCode
Can	3,0	8720663400048