AquaForce HR

CATEGORY SMAW Stick Electrodes

High deposition electrode for under water (wet) welding.

APPLICATIONS Welding standard ship steel grades A, B & D in submerged condition according the requirements of AWS

D3.6M-99. Developped for joining anodes to under water objects, plate doubling in shiprepair, sealing sheet

pile profiles etc.

PROPERTIES AquaForce HR is a high recovery wet welding electrode that is double coated to offer maximum moisture and

electrical resistance. AquaForce HR is able to produce 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. AquaForce HR can be used in all positions, especially suitable for vertical down (PG) position.

CLASSIFICATION AWS A 5.1: E 7014

> EN ISO 2560-A: E 42 2 R 4 1 DIN 2302: E 42 2 - R 6 sa

DIN: **SUITABLE FOR**

> Unalloyed steels: St 33 to St 52.3 Boiler plates: HI, HII, 17 Mn4 Pipe steels: St 35 to St 52.4 StE 210.7 to StE 360.7

Shipbilding plates: A, B, D Steel castings: GS-38 to GS-52

Thin sheets: 1623/1 W.Nr.:

1.0035 to 1.0570 1.0345, 1.0425, 1.0481 1.0308 to 1.0581 1.0307 to 1.0582 1.0440, 1.0472, 1.0475 1.0416 to 1.0551

APPROVALS CE approved

WELDING POSITIONS:













ALL WELD METAL ANALYSIS (TYPICAL)

С	Mn	Si	Р	S
0,075	0,75	0,60	<0,025	<0,025

MECHANICAL PROPERTIES

Heat	RP0,2	Rm	A5	Impac	ct Energy (J) ISC)-V	Hardness
Treatment	(MPa)	(MPa)	(%)	+20°C	0°C	-20°C	HRc / HV
AW	>420	510-610		>47	>27		

AW: as welded

WELDING PARAMETERS / PACKING

Welding Parameters			Packing		
D (mm)	Length (mm)	Current (A)	kg / can	pcs / can	
4.0	350	180-220	3.0	59	

REDRYING TEMPERATURE not recommended