

Certificate No: TAW00005C6

## TYPE APPROVAL CERTIFICATE

This is to certify:			
That the Electrode			
with trade name MAGMAWELD ESB 48	3		
<sup>Manufacturer</sup> <b>Oerlikon Kayn</b> ISTANBUL, İstanb	ak Elektrodlari ve Sana ul, Türkiye	ayi A.S.	
is found to comply with  DNV rules for classif  DNV class programn	ication – Ships ne DNV-CP-0069 – Type approval – '	Welding consumables	
with this approval Grade Current Approved diameter Positions Remarks	3 YH10 DC(+) 2.5 mm - 5.0 mm All, except vertical downwards		
Product(s) approved I	by this certificate is/are accepted fo	r installation on all vessels classed by DNV.	
Issued at <b>Hamburg</b> on <b>2023-01-23</b> This Certificate is valid until <b>2026-12-31</b> . DNV local unit: <b>Istanbul</b>		for <b>DNV</b>	
Approval Engineer: <b>Luc</b>	lger Hachmöller		
		Thorsten Lohmann Head of Section	

Any significant change in design or construction may render this Certificate invalid.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

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