


## AA R690

CATEGORY	FCAW Flux-Cored																														
TYPE	Seamless micro-alloyed rutile flux-cored wire for high strength steels																														
APPLICATIONS	Shipbuilding, steel and vessel construction, mechanical engineering and pipe work, offshore, crane building, lifting, platforms. Steels with yield strength up to 690 MPa (100 ksi).																														
PROPERTIES	<p><b>“The first seamless rutile FCW with extreme low hydrogen for S690”</b></p> <p>Excellent for use in positional welding where high deposition rate is required, suitable for temperatures down to -60° Celsius. Excellent for use on ceramic backing and Mag orbital welding in all positions. Extreme low spatter properties and excellent arc stability with fast freezing slag. <b>CTOD tested !</b></p>																														
CLASSIFICATION	AWS	5.29: E 111 T1-K3M-JH4 5.29M: E761T1-K3M-J H4					EN ISO	18276-A: T 69 6 ZPM1H5																							
SUITABLE FOR	StE690,7 TM, L690M, S690G1QL1, S690, Weldox 700, Naxtra 70, Dilimax, S550, S620, S620Q11, S690QL1, S600MC, S700MC, Naxtra 63, Naxtra 70, Optim 700 mc plus, TStE620, TStE690, Weldox 500, Hardox, L480 - L550, X65, X80, X90, X100, Hardox 400, XAR 400, Dilidur 400, 20MnCr65, 28CrMn43, Domex, ASTM: A 517 Gr A - P A 572 Gr 65, Oceanfit 100, Oceanfit 690																														
APPROVALS	Lloyds (4Y69), DNV (5Y69), CE approved																														
WELDING POSITIONS:																															
WELD METAL ANALYSIS UNDER M21	<table border="1"> <thead> <tr> <th>C</th> <th>Mn</th> <th>Si</th> <th>Cr</th> <th>Ni</th> <th>Mo</th> <th>P</th> <th>S</th> </tr> </thead> <tbody> <tr> <td>&lt;0.08</td> <td>1.70</td> <td>0.50</td> <td>-</td> <td>2.0</td> <td>-</td> <td>&lt;0.015</td> <td>&lt;0.015</td> </tr> </tbody> </table>							C	Mn	Si	Cr	Ni	Mo	P	S	<0.08	1.70	0.50	-	2.0	-	<0.015	<0.015								
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REDRYING TEMPERATURE	Not required																														
GAS ACC. EN ISO 14175:	M21																														