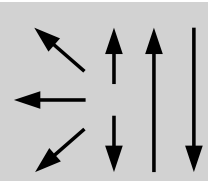


Classifications						
EN ISO 17632-A	EN ISO 17632-B	AWS A5.36		AWS A5.36M		
T46 4 P M21 1 H5	T554T1-1M21A-H5	E71T1-M21A4-CS1-DH4		E491T1-M21A4-CS1-DH4		
T46 2 P C1 1 H5	T552T1-1C1A-H5	E71T1-C1A2-CS1-DH4		E491T1-C1A3-CS1-DH4		
Characteristics and typical fields of application						
<p>Seamless rutile flux cored wire for single- or multilayer welding of Carbon, Carbon-Manganese steels and similar types of steels including fine grain steels with Argon-CO<sub>2</sub> shielding gas or pure CO<sub>2</sub>. Main features: excellent weldability in all positions with high performance welding speed, very low spatter losses, good bead appearance, fast freezing and easy to remove slag. This wire is especially suitable for ship building, structural steel work or wherever good bead appearance is required. D1.8 Seismic Supplement approved. Typical hydrogen value 2.5 – 3.5ml/100g weld metal.</p>						
Base materials						
<p>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  ship building steels: 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</p>						
Typical analysis of all-weld metal (wt.-%)						
	Gas	C	Si	Mn		
wt-%	M21	0.06	0.40	1.45		
wt-%	C1	0.04	0.35	1.25		
Mechanical properties of all-weld metal						
Condition	Yield strength R <sub>e</sub>	Tensile strength R <sub>m</sub>	Elongation A (L <sub>0</sub> =5d <sub>0</sub> )	Impact work ISO-V KV J		
				-20°C	-40°C	
	MPa	MPa	%			
u	<b>500</b> (≥460)	<b>590</b> (550–660)	<b>26</b> (≥20)	<b>100</b> (≥47)	<b>70</b> (≥47)	
u1	<b>470</b> (≥460)	<b>560</b> (550–660)	<b>28</b> (≥20)	<b>80</b> (≥47)		
u	untreated, as welded – shielding gas M21					
u1	untreated, as welded – shielding gas C1					
Operating data						
	<b>Polarity:</b> DC (+)	<b>Shielding gases:</b> (EN ISO 14175) M21 – M35; C1  Argon + 15-25%CO <sub>2</sub> or 100% CO <sub>2</sub>	<b>ø (mm)</b>			
	<b>Rebacking:</b> Not necessary when following the recommended storage conditions		1.0	1.2	1.3	1.4
			1.6			
Welding with standard GMAW power source possible						
Approvals						

