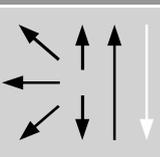


<b>Classifications</b>						
EN ISO 18275-A	EN ISO 18275-B	AWS A5.5	AWS A5.5M			
E 55 6 1NiMo B 4 2 H5	E6218-G A H5	E8018-GH4R	E5518-GH4R			
		E8018-D1H4R	E5518-D1H4R			
<b>Characteristics and typical fields of application</b>						
<p>Basic electrode with high ductility and crack resistance, for high- strength fine- grained steels. Ductile down to -60°C. Resistant to ageing.</p> <p>Easy to handle in all positions, except vertical- down.</p> <p>Very low hydrogen content (acc. to AWS condition HD &lt;4 ml/100 g weld metal).</p>						
<b>Base materials</b>						
<p>Constructional steels, pipe- and vessel steels, cryogenic fine-grained steels and special grades S460N, S460M, S460NL, S460ML, S460Q-S550Q, S460QL-S550QL, S460QL1-S550QL1, P460N, P460NH, P460NL1, P460NL2, L415NB, L415MB-L555MB, L415QB-L555QB, alform 500 M, 550 M, aldur 500 Q, 500 QL, 500 QL1, aldur 550 Q, 550 QL, 550 QL1, GE300, 20MnMoNi4-5, 15NiCuMoNb5-6-4</p> <p>ASTM A 572 Gr. 65; A 633 Gr. E; A 738 Gr. A; A 852; API 5 L X60, X65, X70, X80, X60Q, X65Q, X70Q, X80Q</p>						
<b>Typical analysis of all-weld metal (wt.-%)</b>						
	C	Si	Mn	Ni	Mo	
wt.-%	0.06	0.3	1.2	0.8	0.35	
<b>Mechanical properties of all-weld metal</b>						
Condition	Yield strength R <sub>p0.2</sub>	Tensile strength R <sub>m</sub>	Elongation A (L <sub>0</sub> =5d <sub>0</sub> )	Impact work ISO-V KV J		
	MPa	MPa	%	+20°C	-60°C	
u	<b>600</b> (≥ 550)	<b>650</b> (620 – 780)	<b>25</b> (≥ 18)	<b>180</b>	<b>80</b> (≥ 47)	
s	<b>580</b>	<b>630</b>	<b>25</b>	<b>160</b>		
u	untreated, as welded					
s	stress relieved 580 °C/2h / furnace down to 300 °C / air					
<b>Operating data</b>						
	<b>Polarity:</b> DC (+)	<b>Redrying if necessary:</b> 300 – 350°C, min. 2 h	<b>Electrode identification:</b> FOX EV 65 8018-G E 55 6 1NiMo B	<b>ø (mm)</b>	<b>L mm</b>	<b>Amps A</b>
				2.5	350	80 – 100
				3.2	350	100 – 140
				4.0	450	140 – 180
				4,8	450	180 - 220
5.0	450	190 – 230				
Preheating and interpass temperature, as well as post welds heat treatment as required by the base metal.						
<b>Approvals</b>						
TÜV (1802.), SEPROZ, NAKS, VG 95132, BV, RMR, ABS, CE						