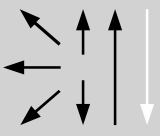


Classifications						
EN ISO 18275-A	AWS A5.5			AWS A5.5M		
E 69 6 Mn2NiCrMo B 4 2 H5	E11018-GH4R			E7618-GH4R		
	E11018MH4R (mod.)			E7618MH4R (mod.)		
Characteristics and typical fields of application						
<p>Basic Mn-Ni-Mo-alloyed electrode with high ductility and crack resistant for high-strength fine-grained constructional steels. Low-temperature ductility at -60°C and resistant to ageing. Easily weldable in all positions except vertical-down. Very low hydrogen content (acc. to AWS condition HD < 4 ml/100 g).</p>						
Base materials						
<p>S690 and higher strength grades, thermo mechanically treated fine grain steels aligned to alform plate 700M</p> <p>ASTM A 514 Gr. F, H, Q; A 709 Gr. 100 Type E, F, H, Q; A 709 Gr. HPS 100W</p>						
Typical analysis of all-weld metal (wt.-%)						
	C	Si	Mn	Cr	Ni	Mo
wt-%	0.05	0.4	1.7	0.4	2.1	0.5
Mechanical properties of all-weld metal						
Condition	Yield strength R _e	Tensile strength R _m	Elongation A (L ₀ =5d ₀)	Impact work ISO-V KV J		
	MPa	MPa	%	+20°C	-60°C	
u	780 (≥ 690)	840 (790 – 960)	20 (≥ 17)	110	60	
s	750	800	20	80		
v	750	790	20	80		
u	untreated, as welded					
s	stress relieved 580°C/2h / furnace down to 300°C/air					
v	quenched/tempered 920°C/1h / air and 600°C/2h / furnace down to 300°C/air					
Operating data						
	Polarity: DC (+)	Redrying if necessary: 300 – 350°C / min. 2 h	Electrode identification: FOX alform® 700 11018-G E 69 6 Mn2NiCrMo B	ø (mm)	L mm	Amps A
				2.5	350	70 – 100
				3.2	350	100 – 140
				4.0	450	140 – 180
				5.0	450	190 – 230
Preheat, interpass temperature and post weld heat treatment as required by the base metal.						
Approvals						
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