

Classification								
AWS A5.1			AWS A5.1M			EN ISO 2560-B		
E7018-1H4R			E4918-1H4R			E 49 18-1A U H5		
Characteristics and typical fields of application								
<ul style="list-style-type: none"> <li>• Basic covered electrode with very good welding characteristics including out of position work.</li> <li>• Particular good impact properties down to -50°C.</li> <li>• CTOD tested at -10°C.</li> <li>• Weld metal recovery about 115%*.</li> <li>• Crack-free weld metal when welding high-carbon steels.</li> <li>• Suitable for use in tank construction, boiler and pressure vessel manufacturer, apparatus engineering, vehicle manufacture, offshore applications and ship building.</li> <li>• Very low hydrogen content in the weld metal (under AWS conditions HD≤4ml/100gm)</li> <li>• Suitable for welding steels with low purity and high carbon content.</li> </ul>								
Base Materials								
S235JRG2 – S355J2, E295, E335, C35; boiler steels P235GH, P265 GH, P295GH, P355GH; fine grained structural steels up to S420N; shipbuilding steels A, B, D, E; offshore steels; pipe steels P265, P295, L290NB – L415NB, L290MB, X42 – X60; cast steels GS-38, GS-45, GS-52; ageing resistant steels Ast35 – Ast52; SA 516 Gr 60, 65, 70; SA333 Gr 6.								
Typical analysis of all weld metal (wt.-%)								
C	Si	Mn	P	S	Cr	Mo	Ni	Mn+Ni+Cr+Mo+V
0.08	0.50	1.40	0.009	0.01	< 0.05	< 0.05	< 0.05	1.4
Mechanical properties of all-weld metal								
Heat treatment	Yield strength R <sub>e</sub> N/mm <sup>2</sup>	Tensile strength R <sub>m</sub> N/mm <sup>2</sup>	Elongation (L <sub>0</sub> =5d <sub>0</sub> )	Impact work ISO-V KV J				
	MPa	MPa	%	+ 20 °C	- 50 °C			
As Welded	490	560	30	190	100			
Operating data								
		<b>Polarity</b> DCEP	Note: * metal recovery rate may vary slightly with higher diameter Re-drying if necessary : <b>300 – 350°C min. 2h</b> Electrode Identification : <b>Bohler Fox S EV 50-1/7018-1H4R</b>					
Approvals								
ABS,LR,DNV,BKI,IBR								
Size, Packaging and Electrical Operating Data								
Size (mm)		Carton Pack		Vacuum Pack		Amperage (A)		
Ø	Length	Kg / Pack	Kg / Box	Kg / Vac.	Kg / Box			
2.50	350	5.0	20.0	2.0	12.0	80 – 110		
3.25	350/450	5.0	20.0	2.0	12.0	100 – 145		
4.00	450	5.0	20.0	2.0	12.0	140 – 200		
5.00	450	5.0	20.0	2.0	12.0	190 – 250		