

BÖHLER FOX DMV 83 Kb

Basic stick electrode, low-alloyed, creep resistant

Classifications					
EN ISO 3580-A	AWS A5.5	AWS A5.5M			
E MoV B 4 2 H5	E8018-G	E5518-G			

Characteristics and typical fields of application

Basic core wire alloyed stick electrode with special suitability for 14MoV6-3 (1/2 Cr 1 Mo) steels. Approved in long-term condition up to +580 °C service temperature.

Crack resistant and ductile deposit, low hydrogen content. Good weld ability in all positions except vertical down. Metal recovery approx. 115 %.

Base materials

Similar alloyed creep resistant steels and cast steels

1.7715 14MoV6-3;

Typical analysis of all-weld metal (wt%)						
	С	Si	Mn	Cr	Мо	V
wt%	0.065	0.35	1.2	0.4	1.0	0.5

Mechanical properties of all-weld metal					
Condition	Yield strength R _{p0,2}	Tensile strength R _m	Elongation A (L ₀ =5d ₀)	Impact work ISO-V KV J	
	MPa	MPa	%	+20 °C	
а	510 (≥ 460)	660 (≥ 550)	22 (≥ 18)	200 (≥ 47)	
V	410	580	26	150	

- a annealed, 720 °C/2h / furnace down to 300 °C / air
- v quenched/tempered 940 °C/0.5 h / oil 730 °C/0.5 h / furnace down to 300 °C / air

Operating data

* † †	Polarity:	Redrying if	Electrode	ø (mm)	L mm	Amps A
←	DC (+)	necessary:	identification:	2.5	250	70 – 100
		300 – 350 °C,	FOX DMV 83 Kb	3.2	350	110 – 140
* • • • • • • • • • • • • • • • • • • •		min. 2 h	9018-G E MoV B	4.0	350	140 – 180

Preheating and interpass temperatures 200 - 300 °C. Post weld heat treatment at 700 - 720 °C for at least 2 hours followed by cooling in furnace down to 300 °C and still air.

Approvals

TÜV (1094.), SEPROZ, CE