CROMOTEN 9M (SPL)

CLASSIFICATIONS

AWS A/SFA 5.5 E-9016 B9

IDENTIFICATION: Name Printed

CHARACTERISTICS

A hydrogen-controlled electrode to deposit niobium & vanadium modified 9Cr-1.0Mo weld metal. The composition of the core wire closely matches with the weld metal chemistry. The electrode burns with smooth & stable arc, low spatter, uniform bead and easily detachable slag. The deposited weld metal is of radiographic quality and can be used at all positions. The weld metal is designed to meet strength requirements even after prolong holding at elevated temperatures and also to have good impact resistance even at sub-zero temperatures.

The electrodes shall be re-dried at 300°C for 1hour prior to use.

TYPICAL APPLICATIONS

The electrode is suitable for welding similar composition creep resistant steels used for boilers, power plants, oil refineries, chemical plants, etc. Suitable for joining steels conforming to Grade T91 of SA-199/SA-199M and SA-213/SA-213M, Grade F91 of SA-182/SA-182M and SA-336/SA-336M, Grade C12A of SA-217/SA-217M, Grade P91 of SA335/SA-335M, Grade FP91 of SA-369/SA-369M, Grade 91 of SA-387/SA-387M. etc.

ı	WELD METAL CHEMISTRY (%)								
ı	C - 0.08-0.12	Mn - 1.2 max	Si - 0.25 max	Cr - 8.5-9.5					
ı	Ni - 0.40-1.0	Mo - 0.85-1.10	V - 0.20-0.30	Nb - 0.02-0.10					
ı	Cu - 0.25 max	N - 0.03-0.07	Al - 0.04 max	S - 0.01 max					
	P - 0.01 max								

Diffusible H, content <5 ml / 100gm of weld metal

MECHANICAL P	MECHANICAL PROPERTIES-ALL-WELD (PWHT 760°C/ 2hr)						
Condition	0.0	YS MPa		CVN Impacts, J			
PWHT		530 min.		45			

CURRENT CONDITIONS: AC (70V), DC (+)

5.0 4.0 3.2 2.5 140-190 110-160 90-120 50-80

WELDING POSITIONS

F, H, V -up, OH

REDRYING CONDITIONS

 300°C for 1 hour (Optionally also available in vacuum-packed condition)

PACE	PACKING DATA							
Wt. p	mm	5.0	4.0	3.2	2.5			
	h, mm	350	350	350	350			
	er carton, kg	4	4	4	4			
	rt per box, kg	16	16	16	16			



WELDERS TO THE NATION SINCE 1951

ADOR WELDING LIMITED

(Formerly Known as Advani-Oerlikon Ltd.)

