TENALLOY Z PLUS

CLASSIFICATIONS

AWS A/SFA 5.1 F7018-1 IS 814 E B5629H₃JX

IDENTIFICATION: Name Printed

CHARACTERISTICS

A low-hydrogen, iron-powder electrode. Weld metal exhibits excellent toughness upto minus 45°C. It gives excellent arc stability, arc smoothness and very easy slag removal. It has exceptional all-positional operating characteristics giving X-ray quality welds even for pipe welding in 5G & 6G,6GR positions.

TYPICAL APPLICATIONS

Welding of storage tanks, pipes, pressure vessels, boilers, bridges and heavy structures subject to dynamic loading and mechanical restraint. Suitable for joining steels like ASTM SA-414/SA-414M Gr. C&D (P. No. 1) Gr.55, Gr. 60 steels of SA-516/516M (P. No. 1), IS:2002, IS:2062 etc.

	WELD METAL CHEMISTRY, wt%		
C - 0.04 - 0.09 Mn - 0.80 - 1.60	S - 0.030 max	Diffusible H ₂	
Mn - 0.80 - 1.60	P - 0.030 max	Content, <5 ml/100gm	
Si -0.20 - 0.45		of weld metal	

MECHANICAL	MECHANICAL PROPERTIES - ALL-WELD				
Condition	UTS	YS	% Elong.	CVN Impacts, J	Hardness,
	MPa	MPa	(L=4Xd)	-45°C	BHN
As-welded	520 - 640	450 - 540	24 min.	40 - 60	200 max.

A DE	DRO	N/A	16

4Y400H5 SONCAP-ABS F7018-1 BV 4Y40H5 IBR 4Y40H5 Tovo E7018-1 DNV IRS 4HHH, 4Y40HHH LRA DXVUO, BF, 4Y40M, H5 4Y40H5 MND GL

CURRENT CONDITIONS: AC (90V), DC (+)

4.0 3.2 2.5 180-280 140-180 90-140 60-90

WELDING POSITIONS

F, H, V-up,OH

REDRYING CONDITIONS

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

PACKING DATA				
Dia., mm Length, mm Pcs per carton, Nos Cartons / box Pcs per box, Nos Approx. Wt. of 1000 pcs,kg	5.0 450 51 4 204 96	4.0 450 75 4 300 66	3.2 450 113 4 452 44	2.5 350 239 4 956 21

SPECIAL TESTS

TEST TYPE	REMARKS
HIC & Sulphide SCC (NACE)	Passed



WELDERS TO THE NATION SINCE 1951 ADOR WELDING LIMITED

(Formerly Known as Advani-Oerlikon Ltd.)



