



# Tenalloy Z Plus

C-Mn STEEL (Low Hydrogen)

Welding Electrode with Excellent Mechanical and Impact Properties at Low Temperature

CLASSIFICATION :	AWS A/SFA 5.1	IS 814	EN ISO 2560-A	APPROVALS :
	E 7018-1	E B5629H3JX	E 42 4 B 32 H5	ABS/BV/DNV/IRS/ LRA/IBR/NPCIL/MND

**KEY FEATURES :**

- Basic coated iron powder type
- Suitable for pipe welding in 5G, 6G & 6GR positions
- Excellent toughness down to -45°C
- Radiographic weld deposit
- All position capability

WELDING POSITION :



AC (90 OCV)/ DCEP

**TYPICAL APPLICATIONS :**

- Storage tanks, pipes, boilers
- Bridges & heavy structures subject to dynamic loading
- Joining ASTM SA 414/414M Gr.C/D, SA 516/516M Gr.55/60, IS 2002, IS 2062 steels

REDRYING CONDITION : 300°C for 1 hr. (Also available in vacuum packed condition)

**CHEMICAL COMPOSITION OF UNDILUTED WELD METAL, Wt % :**

	C	Mn	Si	S	P
Typical	0.06	1.4	0.3	0.02	0.02
Specification	0.04-0.09	0.80-1.60	0.20-0.45	0.03 max	0.03 max

**MECHANICAL PROPERTIES OF ALL WELD METAL :**

	Condition	UTS, MPa	YS at 0.2% offset, MPa	EL%	CVN Impact at -45°C, J
Typical Specification	As Welded	560	480	27	58
		520-640	450-540	24 min.	40-70

Hardness, 3 Layer: 200 BHN max

Diffusible H2 Content: <5 ml/100 gm

SPECIAL TEST : HIC & SSCC (NACE)

**PARAMETERS - PACKING DATA :**

Ø x L, mm	Amperage, A	Approx. Pcs/ Carton	Carton/Box	Approx. wt. of 1000 pcs, Kg.
2.5 x 350	60-90	239	4	21
3.15 x 450	90-140	113	4	44
4.0 x 450	140-180	75	4	66
5.0 x 450	180-240	51	4	96