

TENALLOY 55

AWS A/SFA 5.5 E8018-G

LOW ALLOY STEEL (High Temperature)

CLASSIFICATION:

EN ISO 3580-A
E 46 5 1Ni B 12 H5

KEY FEATURES:

- Basic coated electrode
- Excellent fracture toughness down to -50°C
- Resist atmospheric corrosion
- Weld metal is tough & highly crack resistant
- Radiographic quality weld
- Suitable for positional welding

APPROVALS: IBR/CE

TYPICAL APPLICATIONS:

- Suitable for joining steels containing 1% Ni and 0.5% Cu
- Storage tanks, Pipes
- Pressure vessels, Boilers
- Bridges, Heavy structures

TYPICAL CHEMICAL COMPOSITION OF UNDILUTED WELD METAL, Wt %:


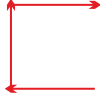
C	Mn	Si	Ni
0.07	1.35	0.3	1.1

MECHANICAL PROPERTIES OF ALL WELD METAL:

	Condition	UTS, MPa	YS at 0.2% offset, MPa	EL%	CVN Impact at -50°C, J
Typical	As Welded	610	570	25	55
Specification		550 min	460 min	19 min	47 min

Diffusible H2 Content: <5 ml/100 gm

PARAMETERS - PACKING DATA:

Ø x L, mm	Amperage, A		
2.5 x 350	60-90	 AC (70 OCV)/DCEP	All Positions, except vertical Downwards
3.15 x 350	100-140		
4.0 x 450	140-180		
5.0 x 450	190-250		
		REDRYING CONDITION: 250-300°C for minimum 1 hr.	

Available in Standard carton packing of 20 kg box containing 4 cartons each. Also available in vacuum packing