

# TENALLOY 16W

AWS A/SFA 5.1 E7016

C-Mn STEEL (Low Hydrogen)

## CLASSIFICATION:

ISO 2560-A  
E 42 3 B 12 H5

## KEY FEATURES:

- Basic type coating
- All position capability
- Radiographic quality weld
- Excellent mechanical properties at subzero temperatures

**APPROVALS:** - CE

## TYPICAL APPLICATIONS:

- Buffer layer before hard facing
- Joining cast iron to mild steel
- Repair of cast iron
- Butt welding of rail ends
- Fixing of rails to mild steel girders

## TYPICAL CHEMICAL COMPOSITION OF UNDILUTED WELD METAL, Wt %:

C	Mn	Si
0.05	0.9	0.4


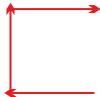
## MECHANICAL PROPERTIES OF ALL WELD METAL:

	Condition	UTS, MPa	YS at 0.2% offset, MPa	EL%	CVN Impact, J
					-30°C
Typical	As Welded	520	450	28	60
Specification		490 min	400 min	22 min	50 min

**Hardness (3 Layer):** 200 BHN max

**Diffusible H2 Content:** <5 ml/100 gm

## PARAMETERS - PACKING DATA:

Ø x L, mm	Amperage, A	 DCEP	All Positions, Except Vertical Down: 
2.5 x 350	60-85		
3.15 x 450	90-130		
4.0 x 450	130-180		
5.0 x 450	180-240		

Available in Standard carton packing of 20 kg box containing 4 cartons of 5 kgs each. Also available in vacuum packing