SPECIFICATION SHEET

TECHNIWELDUSA/



Techniwear 55-E

Flux Coated Hardfacing Electrode

Features

- Flux-Coated Electrode
- All-position electrode for joining or overlaying for high impact.
- Operates on either AC or DC reverse.
- The arc is smooth and stable with low spatter loss.
- Slag removal is easy
- Deposits are very tough, and work-harden rapidly in service as plastic deformation occurs during impact.
- Designed for buildup, hardfacing and fabricating of manganese steel.

Applications

- Coal crushing segments
- Shovel drive sprockets
- Dipper teeth and lips
- · Gear teeth and attaching wear plates
- Crusher pads

Diameters & Packages

Diameter	10 lb
0.125" (1/8")	✓
0.156" (5/32")	~
0.187" (3/16")	✓

Technical Specifications

- Hardness as Deposited: 16-22 HRC
- Work Hardened: 50+ HRC
- Deposit Thickness: As required
- Tensile Strength: 125,000 psi
- Yield Strength: 80,000 psi
- Elongation: 34%
- Machinability: Poor
- Can be flame-cut
- Wire Equivalent: Techniwear 55

Recommended Weld Parameters:

Diameter	Amps
0.125" (1/8")	90-130
0.156" (5/32")	120-150
0.187" (3/16")	140-175

• Welding Procedure: Do not preheat manganese steels. Maintain a short to medium arc. Direct the arc on deposited weld metal depositing 3 to 4 inches at a time. Interpass temperatures on manganese steel should not excel 500°F by skipwelding. Skip welding is advisable on large parts. Peening while hot helps reduce stress. Cool slowly.

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