

SUPER ZEDALLOY Ni

CLASSIFICATIONS

IDENTIFICATION: Name Printed

CHARACTERISTICS

A super-heavy-coated electrode for hardfacing applications on mild steel, carbon steels and low-alloy steels where resistance to severe abrasion especially at elevated temperature is necessary. The weld metal composition is approx. 30% Cr, 4% Si and 3.0% Carbon. The deposit has a Brinell hardness of approx. 545 (55Rc) at room temperature and the weld deposit retains hardness at relatively high temperatures. Use only one or two layers to avoid cracking. KEEP DRY.

TYPICAL APPLICATIONS

- Ideal for applications where abrasion and high temperature corrosion condition exist as in the blast furnace bells and hoppers
- Steel mill equipment
- Metallurgical industry and chemical plants.

CURRENT CONDITIONS : DC (+)

5.0	4.0	3.2
180-220	140-180	100-140

WELDING POSITIONS

F

REDRYING CONDITIONS

300°C for 1 hour

WELD METAL CHEMISTRY (%)

C - 2.4-3.2	Ni - 4.50-6.00
Mn - 1.70-2.70	S - 0.03 max
Si - 3.80-5.20	P - 0.03 max
Cr - 27.00-30.00	

PACKING DATA

Dia., mm	5.0	4.0	3.2
Length, mm	350	350	350
Wt. per carton, kg	5	5	5
Cartons / box	4	4	4
Net wt per box, kg	20	20	20

TYPICAL PROPERTIES OF WELD METAL

Weld Metal Hardness 3 Layer	Machinability	Abrasion Resistance	Impact Resistance	Corrosion Resistance
AW 550 BHN (Approx.)	Non Machinable	Excellent, even at 500°C	Poor	Good
At 500°C=370 BHN (Approx.)				



WELDERS TO THE NATION SINCE 1951
ADOR WELDING LIMITED

(Formerly Known as Advani-Oerlikon Ltd.)

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