# **SUNALLOY 801**





# **DESCRIPTION**

SUNALLOY 801 is easily weldable and gives good slag removal. Recovery is 160%. The weld metal is work-hardening, largely resistant to rust and corrosion and resists scaling up to 1560 °F (850 °C).

# **ALLOY BASIS**

Cr, Ni, Mn

# **PROPERTIES**

Specially formulated low-heat input austenitic stainless-steel electrode. Has excellent heat resistance upto 850°C, impact resistance to corrosion by atmosphere, sea, water, weak acids etc.

#### **APPLICATIONS**

SUNALLOY 801 suited for particularly tough, crack and wear-resistant joint and surfacing on steels of higher tensile strength like St. 60, St.70 and hard-manganese steel, as well as for joining high alloy steels with low-alloy and non-alloy materials. Such applications occur primarily on construction machinery and equipment. SUNALLOY 801 is strongly recommended for elastic inter-passes under hardfacing exposed to impact loads.

# **PROCEDURE**

Adopt short arc and adjust low amperage, especially for high Manganese steel. Peen and de-slag each pass. Use water bath to contain heat buildup.

#### **MECHANICAL PROPERTIES**

Tensile strength : up to  $685 \text{ N/mm}^2$  (99.00psi) Yield strength : up to  $490 \text{ N/mm}^2$  (71.00psi)

Elongation : 40 - 45% Impact strength : 83 J

### **TECHNICAL DATA & WELDING PARAMETERS**

Current : AC/DC (+)