DC+

**NICKEL ALLOY** 

# **DESCRIPTION**

Very performing (140%) and versatile high alloy Incone® type electrode for welding nickel alloys, stainless steels and steels difficult to weld together or as dissimilar assemblies.

#### **CHARACTERISTICS**

- Excellent all-position weldability and high deposit rate
- Excellent resistance to severe stress
- Excellent corrosion, oxidation and acid resistance
- Exceptional mechanical properties at high or very low temperatures
- Very high elongation
- Maximum resistance to hot cracking
- Easy striking and restriking

### TYPICAL APPLICATIONS

Excellent for dissimilar metals and heavy sections, refractory steels, foundry oven parts, valve seats, atomic and petrochemical industries, cryogenic steels, boilers, heat exchangers, shafts, etc.

#### **PROCEDURE**

Remove any trace of oil, grease and dirt from the surface. Gouge a U-groove on heavy sections with the Soudotec 212 SP or Soudotec G12 electrode. Weld at low amperage using the smallest diameter to limit heat input while maintaining a short arc and minimum weaving. Remove slag between each pass. Always strike the arc on a deposited bead, and never on the base metal. Preheating is generally only required for heavy or restrained parts and high alloy steels. Only use perfectly dry electrodes.

## **MECHANICAL PROPERTIES**

Tensile strength: 100 000 psi (689 MPa) Yield strength: 70 000 psi (483 MPa)

Elongation: 40 - 43% Impact (Charpy V): 80 J at - 196°C

## **WELDING PARAMETERS**

Diameter: 4.0 mm (5/32") 3.2 mm (1/8") 2.5 mm (3/32") 130 - 180 A 100 - 130 A 75 - 100 A Amperage:

Also available in solid MIG wire: **Soudotec M1690**, flux-cored wire: **Soudotec FC 1690G**, TIG rods: Soudotec T1690 and electrodes (non jet type): Soudotec 1690

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Specialized welding alloys and technology. For technical assistance or for ordering:



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