

# CEWELD Alloy 188 Tig

**TYPE** GTAW filler metal for welding Alloy 188

**APPLICATIONS** Alloy 188 combines properties which make it suitable for a variety of fabricated component applications in the aerospace industry. It is widely used in established military and commercial gas turbine engines for combustion cans, transitions ducts, and afterburner components.

**PROPERTIES** Alloy 188 Tig filler metal is used for welding of 188 alloy. The alloy has excellent strength with superior oxidation resistance and thermal stability. The alloy has good sulfidation resistance and is used extensively in demanding military and civil aircraft gas turbine engine combustors and other key components.

**CLASSIFICATION**

**SUITABLE FOR** Alloy 188

**APPROVALS**

**WELDING POSITIONS**



**TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%)**

| Co   | Cr | Ni | W  | Fe | Mn  | Si   | C   |
|------|----|----|----|----|-----|------|-----|
| Rem. | 22 | 22 | 15 | 2  | 0.9 | 0.35 | 0.1 |

**MECHANICAL PROPERTIES**

| Heat Treatment | R <sub>P0.2</sub> (MPa) | R <sub>m</sub> (MPa) | A <sub>5</sub> (%) | Hardness |
|----------------|-------------------------|----------------------|--------------------|----------|
| As Welded      |                         | 791                  | 39                 | HRc      |

**REDRYING** Not required

**GAS ACC. EN ISO 14175** I1