



# CEWELD NiCrCo 282

**TYPE** Nickel based Solid wire, HAYNES 282-Typ (NiCrCoMo) , precipitation hardening, high temperature alloy used for welding similar to composition base alloys.

**APPLICATIONS** CEWELD NiCrCo 282 is a high temperature alloy which is used for welding of nickel-chromium-cobalt-molybdenum alloys (UNS Number N07208). This filler metal can also be used for suitable for critical gas turbine applications found in the combustors, turbine and exhaust sections, and nozzle components, Aerospace components, Springs and fasteners

**PROPERTIES** Very high strength at elevated temperatures Strength is generally comparable or surpassing Waspaloy and approaching R-41 and Alloy 263 hardenable High temperature dynamic applications

**CLASSIFICATION**

|        |                            |
|--------|----------------------------|
| AWS    | A 5.14: ERNiCrCoMo-2 mod   |
| EN ISO | 18274: S NiZCr20Co10Mo8Ti3 |
| F-nr   | 43                         |
| FM     | 6                          |

**SUITABLE FOR** HAYNES® 282® alloy, UNS N07208, SAE AMS 5951 / 5915, ASTM B637

**APPROVALS**

**WELDING POSITIONS**



**TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)**

| C    | Si   | Mn  | Cr | Ni | Mo  | Ti  | Co | Al  |
|------|------|-----|----|----|-----|-----|----|-----|
| 0.06 | 0.15 | 0.3 | 20 | 57 | 8.5 | 2.1 | 10 | 1.5 |

**MECHANICAL PROPERTIES**

| Heat Treatment | R <sub>p0,2</sub> (MPa) | R <sub>m</sub> (MPa) | A5 (%) | Hardness |
|----------------|-------------------------|----------------------|--------|----------|
| 760°C±15°C 10h | 1100                    | 1450                 | 28     | 40 HRc   |

**REDRYING** Not required

**GAS ACC. EN ISO 14175** 11