# CEWELD Alloy B3 Tig

certilas® THE FILLER METAL SPECIALIST

**TYPE**

Nickel based wire or rod for welding Hastelloy B2 and B3

**APPLICATIONS**

Plants for the production and processing of hydrochloric, sulfuric, acetic and phosphoric acids. Plants for ethylbenzene production. Pressure vessels for chloroprene production. Plants for the production of phenol from isopropyl benzene. Pyrolysis plants for the production of acetic anhydride

**PROPERTIES**

CEWELD® Alloy B3 Tig is a nickel-base alloy with excellent resistance tot hydrochlorid acid at all concentrations and tempertures. It also withstands hydrogen chloride, sulfuric, acetic, hydrofluoric nd phosphoric acids. The alloy has improved thermal stability, fabricability and stress corrosion cracking resistance.

**CLASSIFICATION**

| | |
|---|---|
| AWS | A 5.14: ERNiMo-10 |
| EN ISO | 18274: S Ni 1067(NiMo30Cr) |
| F-nr | 43 |
| FM | 6 |
| W.Nr. | 2.4600 |

**SUITABLE FOR**

**Hastelloy B2, Hastelloy B3,**
17744, 17750, 17751, 17752, 17753
ASTM: B 333, B 335, B 564, B 619, B 622, B 626

**APPROVALS**

No Approvals Found

**WELDING POSITIONS**


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

| C | Si | Mn | Cr | Ni | Mo | Ti | V | Fe | W | Co |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.001 | 0.08 | 0.59 | 1.54 | 67.2 | 28.6 | 0.05 | 0.008 | 1.44 | 0.5 | 0.3 |

**ALL WELD MECHANICAL PROPERTIES**

| Heat Treatment | $R_{P0,2}$ MPa | Rm MPa | A5 (%) | Impact Energy (J) ISO-V RT |
|---|---|---|---|---|
| As Welded / | 540 | 820 | 45 | 195 |

**REDRYING TEMPERATURE**

Not required

**GAS ACCORDING EN 14175**

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