



# CEWELD Alloy 740H Tig

**TYPE** Solid Nickel based welding wire for gas tungsten arc welding

**ANWENDUNGEN** A Superalloy Specifically Designed For Advanced Ultra Supercritical Power Generation. Potential applications include advanced power production boiler tubes and diesel engine exhaust valves.

**EIGENSCHAFTEN** Alloy 740H Tig is a nickel-base, precipitation hardenable superalloy that offers a unique combination of high strength and creep resistance at elevated temperatures along with resistance to coal ash corrosion. The alloy was originally targeted for use as A-USC boiler tubes in the superheater sections of these plants but was then adapted for application as a material for the steam headers to which the boiler tubes are connected.

**KLASSIFIKATION**

|      |                       |
|------|-----------------------|
| AWS  | A 5.14: ~ ER NiCrCo-1 |
| F-nr | 43                    |
| FM   | 6                     |

**GEEIGNET FÜR** Inconel alloy 740H

**ZULASSUNGEN**

**SCHWEISSPOSITIONEN**



**TYPISCHE CHEMISCHE  
ANALYSE DES  
FÜLLMETALLS (%)**

| C    | Si  | Mn  | Cr | Ni | Mo  | Nb  | Fe | Co |
|------|-----|-----|----|----|-----|-----|----|----|
| 0.06 | 0.8 | 0.7 | 24 | 40 | 1.5 | 1.5 | 2  | 21 |

**MECHANISCHE GÜTEWERTE**

| Heat Treatment | R <sub>P0,2</sub> (MPa) | R <sub>m</sub> (MPa) | A5 (%) | Hardness |
|----------------|-------------------------|----------------------|--------|----------|
| As Welded      | 780                     | 1150                 | 28     | HRc      |

**RÜCKTROCKNUNG** Not required

**GAS ACC. EN ISO 14175** I1



# CEWELD Alloy 740H Tig

ALLOY 740H TIG 2,4 X  
914MM

| Packaging | KG/unit | EanCode       |
|-----------|---------|---------------|
| Tube      | 4,54    | 8720663419552 |