

# CEWELD NiTi3

**TYPE** Solid Nickel based filler metal for MAG welding.

**APPLICATIONS** CEWELD® NiTi3 is developed for welding and cladding Nickel 200 and Nickel 201. This alloy is also suited for surfacing of steel. Dissimilar welding applications of filler metal NiTi3 include joining Nickel 200 and 201 to stainless steels, copper-nickel alloys, and Monel alloys. It is also used for joining Monel alloys and copper-nickel alloys to carbon steels, and for joining copper-nickel alloys to Inconel and Incoloy alloys.

**PROPERTIES** The reaction of titanium with carbon maintains a low level of free carbon and enables the filler metal to be used with Nickel 201. The weld metal has good corrosion resistance, particularly in alkali's.

**CLASSIFICATION**

|        |                         |
|--------|-------------------------|
| AWS    | A 5.14: ERNi-1          |
| EN ISO | 18274: S Ni 2061(NiTi3) |
| W.Nr.  | 2.4155                  |
| F-nr   | 41                      |
| FM     | 6                       |

**SUITABLE FOR**

**Ni 2061 (NiTi3)**  
**W.Nr:** 2.4060, 2.4061, 2.4062, 2.4066, 2.4068, 2.4106, 2.4108, 2.4109, 2.4110, 2.4116, 2.4122, 2.4128, 2.4170, 2.4175  
 Ni 99.6 ; Ni 99.2 ; LC-Ni99.6 ; LC-Ni99, Ni99.4Fe, NiMn1, NiMn1C, NiMn1,5, NiMn2, NiMn3Al, NiMn5, NiAl4Ti, G-Ni95, G-Ni93C  
**ASTM** B160, B161, B162, B163  
**UNS:** N02200, N02201, N02205  
**Alloy:** 200, 201, 205, Monell

**APPROVALS**

**WELDING POSITIONS**



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

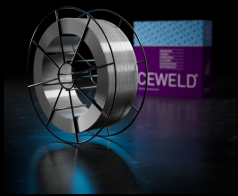
| C   | Si  | Mn  | Ni | Ti | Al  |
|-----|-----|-----|----|----|-----|
| 0.1 | 0.5 | 0.5 | 96 | 3  | 0.9 |

**MECHANICAL PROPERTIES**

| Heat Treatment | R <sub>p0,2</sub> (MPa) | R <sub>m</sub> (MPa) | A <sub>5</sub> (%) | Impact Energy (J) ISO-V | Hardness |
|----------------|-------------------------|----------------------|--------------------|-------------------------|----------|
|                |                         |                      |                    | RT                      |          |
| As Welded      | 200                     | 420                  | 30                 | 120                     | HRc      |

**REDRYING** Not required

**GAS ACC. EN ISO 14175** I1



# CEWELD NiTi3

## NIT13 0,8MM

| Packaging | KG/unit | EanCode       |
|-----------|---------|---------------|
| BS-300    | 15      | 8720663417695 |

## NIT13 1,0MM

| Packaging | KG/unit | EanCode       |
|-----------|---------|---------------|
| BS-300    | 15      | 8720663417701 |

## NIT13 1,2MM

| Packaging | KG/unit | EanCode       |
|-----------|---------|---------------|
| BS-300    | 15      | 8720663417725 |
| BS-300    | 15      | 8720663417718 |

## NIT13 1,6MM

| Packaging | KG/unit | EanCode       |
|-----------|---------|---------------|
| BS-300    | 15      | 8720663417732 |