



# CEWELD Alloy C-276

**TYPE** Filler metal for welding similar NiCrMo C276 alloys.

**APPLICATIONS** CEWELD® Alloy C276 is used for welding materials of similar composition. This low carbon nickel-chromium-molybdenum filler metal can also be used for dissimilar welding between nickel base alloys and stainless steels, as well as for surfacing and cladding on low alloyed steels.

**PROPERTIES** Due to high molybdenum content this alloy offers excellent resistance too stress & corrosion cracking, pitting and crevice corrosion. High mechanical properties with excellent weldability.

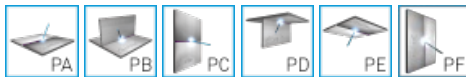
**CLASSIFICATION**

|        |                                    |
|--------|------------------------------------|
| AWS    | A 5.14: ERNiCrMo-4                 |
| EN ISO | 18274: S Ni 6276 (NiCr15Mo16Fe6W4) |
| W.Nr.  | 2.4886                             |
| F-nr   | 43                                 |
| FM     | 6                                  |

**SUITABLE FOR** **Alloy 276, Ni 6276 (NiCr15Mo16Fe6W4). 2.4886, 2.4887**  
**M.No:** 1.5680, 1.5682, 2.4819, 2.4883  
 NiMo16Cr15W, X12Ni5 / 12Ni19, X8Ni9, G-NiMo16Cr  
 Alloy C4, Hastelloy C276, A494CW-12MW, A743 / A744CW-12M

**APPROVALS**

**WELDING POSITIONS**



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

| C    | Si   | Mn  | P    | S    | Cr   | Ni | Mo | V   | Fe | W   | Co | Cu  |
|------|------|-----|------|------|------|----|----|-----|----|-----|----|-----|
| 0.01 | 0.07 | 0.4 | 0.02 | 0.01 | 15.5 | 70 | 16 | 0.2 | 5  | 3.5 | 1  | 0.2 |

**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                      | -196°C |          |
| As Welded      | 470                     | 740                  | 32                 | 100                     | 60     | HRc      |

**REDRYING** Not required

**GAS ACC. EN ISO 14175** I1



# CEWELD Alloy C-276

ALLOY C-276 0,8MM

| Packaging | KG/unit | EanCode       |
|-----------|---------|---------------|
| BS-300    | 13,6    | 8720663420091 |

ALLOY C-276 0,9MM

| Packaging | KG/unit | EanCode       |
|-----------|---------|---------------|
| BS-300    | 13,6    | 8720663420077 |

ALLOY C-276 1,0MM

| Packaging | KG/unit | EanCode       |
|-----------|---------|---------------|
| BS-300    | 13,6    | 8720663420084 |

ALLOY C-276 1,14MM

| Packaging | KG/unit | EanCode       |
|-----------|---------|---------------|
| BS-300    | 13,6    | 8720663420107 |

ALLOY C-276 1,2MM

| Packaging | KG/unit | EanCode       |
|-----------|---------|---------------|
| BS-300    | 15      | 8720663420114 |

ALLOY C-276 1,6MM

| Packaging | KG/unit | EanCode       |
|-----------|---------|---------------|
| BS-300    | 15      | 8720663420121 |
| BS-300    | 13,6    | 8720663420138 |