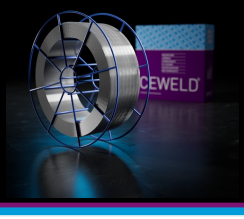



# CEWELD 430 LNbTi

certilas® THE FILLER METAL SPECIALIST

**TYPE**

Double stabilized ferritic filler metal for welding critical applications in exhaust manufacturing.

**APPLICATIONS**

CEWELD® 430 LNbTi was developed for the automotive industry and is used in the manufacture of exhaust systems and catalytic converters. This wire should be used when good resistance to corrosion and thermal fatigue is required.
Suitable for use with stabilized ferritic stainless steels, austenitic stainless steels, and in both homogeneous and heterogeneous sheet configurations (sheets of different grades welded together).

**PROPERTIES**

Stabilization with niobium and titanium gives CEWELD® 430 LNbTi the advantages of these two ferritic microstructure stabilizers: Titanium minimizes grain growth in the weld zones (WM) by precipitating titanium nitride (TiN) in the still-molten metal in these zones, thus preventing the risk of embrittlement that can sometimes occur with very thick welds (> 3 mm of the sheet being welded). Niobium retains the remaining carbon and nitrogen by transferring 85 to 95% of the carbon in the welding arc under all standard welding conditions, thereby preventing the risk of intergranular corrosion in the weld metal.

**CLASSIFICATION**

| | |
|---|---|
| AWS | A 5.9: ~ 439 LNb |
| EN ISO | 14343-A: G 18 L Nb Ti |
| W.Nr. | 1.4509 |
| F-nr | 6 |
| FM | 5 |

**SUITABLE FOR**

**1.4509, AISI 441,** UNS-Nummer: S43940
1.4000, 1.4002, 1.4016, 1.4057, 1.4740, 1.4742, 1.4057, 1.4059, 1.4741, 1.4509, 1.4510, 1.4511, 1.4512, 1.4520, 1.4712, 1.4713, 1.4724,
X7Cr14, X12Cr13, X17CrNi16-2, X6Cr13, X6CrAl13, X6Cr17, X17CrNi16-2, X2CrTiNb18, X3CrTi17, X3CrNb17, X2CrTi12, X2CrTi17, X10CrSi6, X10CrAlSi7, X10CrAlSi13, X10CrAlSi18
UNS S40300, S40500, S40900, S41000, S42900, S43000, S43035, S43036, S43100, S44200
AISI 403, 405, 409, 410, 429, 430, 430Cb, 430Ti, 439, 431, 442

**APPROVALS**

CE

**WELDING POSITIONS**

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

| C | Si | Mn | Cr | Ni | Mo | Nb | Ti |
|---|---|---|---|---|---|---|---|
| 0.02 | 0.5 | 0.6 | 18 | 0.15 | 0.2 | 0.7 | 0.4 |

**MECHANICAL PROPERTIES**

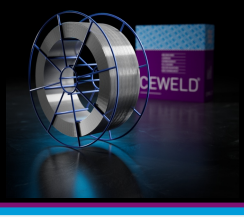
| Heat Treatment | $R_{P0,2}$ (MPa) | Rm (MPa) | A5 (%) | Hardness |
|---|---|---|---|---|
| As Welded | 310 | 450 | 25 | 140 HRc |

**REDRYING**

Not required

**GAS ACC. EN ISO 14175**

M12






# CEWELD 430 LNbTi

430 LNBTI 1,0MM

| Packaging | KG/unit | EanCode |
|---|---|---|
| BS-300 | 15 | 8720663412157 |

430 LNBTI 1,2MM

| Packaging | KG/unit | EanCode |
|---|---|---|
| BS-300 | 15 | 8720663412164 |