



CEWELD 430 LNbTi

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)	R _m (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