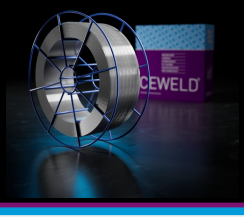


CEWELD 430 LNbTi

certilas® THE FILLER METAL SPECIALIST

TYPE

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

TOEPASSINGEN

430 LNb/Ti is developed and designed for the Automotive industry and used for production of exhaust systems and catalytic converters.. The wire should be used when there is a need for good resistance to corrosion and thermal fatigue. Stabilised ferritic stainless steels, Austenitic stainless steels and in both homogeneous and heterogeneous sheet metal configurations (sheets of different grades welded together)

EIGENSCHAPPEN

Stabilization with niobium and titanium gives it the advantages of both these ferritic structure stabilizers: Titanium minimizes grain growth in Weld Metal zones (WM) due to titanium nitride (TiN) precipitation in the still liquid metal in these zones, thus avoiding the risk of brittleness, which may sometimes occur when very thick welds are made (> 3 mm of sheet metal to be welded). Niobium traps the residual C and N through its transfer of between 85 and 95% in the welding arc under all standard welding conditions, thus avoiding any risk of inter granular corrosion in the WM.

CLASSIFICATIE

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

GESCHIKT VOOR

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

GOEDKEURINGEN

CE

LASPOSITIES

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

MECHANISCHE WAARDEN

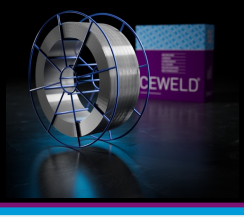
Heat Treatment	$R_{P0,2}$ (MPa)	Rm (MPa)	A5 (%)	Hardness
As Welded	310	450	25	140 HRc

HERDROGEN

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