




CEWELD 430 LNbTi

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	<table border="0"> <tr> <td>AWS</td> <td>A 5.9: ~ER 430</td> </tr> <tr> <td>EN ISO</td> <td>14343-A: G 17</td> </tr> <tr> <td>W.Nr.</td> <td>1.4509</td> </tr> <tr> <td>F-nr</td> <td>6</td> </tr> <tr> <td>FM</td> <td>5</td> </tr> </table>	AWS	A 5.9: ~ER 430	EN ISO	14343-A: G 17	W.Nr.	1.4509	F-nr	6	FM	5						
AWS	A 5.9: ~ER 430																
EN ISO	14343-A: G 17																
W.Nr.	1.4509																
F-nr	6																
FM	5																
GESCHIKT VOOR	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 (%)	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>C</th> <th>Si</th> <th>Mn</th> <th>Cr</th> <th>Ni</th> <th>Mo</th> <th>Nb</th> <th>Ti</th> </tr> </thead> <tbody> <tr> <td>0.02</td> <td>0.5</td> <td>0.6</td> <td>18</td> <td>0.15</td> <td>0.2</td> <td>0.7</td> <td>0.4</td> </tr> </tbody> </table>	C	Si	Mn	Cr	Ni	Mo	Nb	Ti	0.02	0.5	0.6	18	0.15	0.2	0.7	0.4
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	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Heat Treatment</th> <th>R_{p0,2} (MPa)</th> <th>R_m (MPa)</th> <th>A₅ (%)</th> <th>Hardness</th> </tr> </thead> <tbody> <tr> <td>As Welded</td> <td>310</td> <td>450</td> <td>25</td> <td>140 HRc</td> </tr> </tbody> </table>	Heat Treatment	R _{p0,2} (MPa)	R _m (MPa)	A ₅ (%)	Hardness	As Welded	310	450	25	140 HRc						
Heat Treatment	R _{p0,2} (MPa)	R _m (MPa)	A ₅ (%)	Hardness													
As Welded	310	450	25	140 HRc													
HERDROGEN	Not required																
GAS ACC. EN ISO 14175	M12																