


CEWELD Al 99,0

TYPE	99,0% pure aluminum filler metal for Mig welding										
TOEPASSINGEN	Aluminum wire for welding mostly pure aluminum (maximum 0,95% of alloyed elements). Applications in chemistry, electronics, construction and food industries.										
EIGENSCHAPPEN	This 99,0% pure aluminum filler metal offers excellent weldability and is the strongest in the 1000 series of the pure aluminium grades. Heavy parts and thicker plates should be preheated (150°C), prior to welding. At the same time, it keeps the benefits of being relatively lightly alloyed (compared to other series), such as high electrical conductivity, thermal conductivity, corrosion resistance, and workability. It can be strengthened by cold working, but not by heat treatment.										
CLASSIFICATIE	AWS A 5.10: ER1100 EN ISO 18273: S Al 1100 (Al99,0Cu) F-nr 21										
GESCHIKT VOOR	Al99,0 Al.99,5 Al.99,7 E-Al., 99,5, 3.0205, 3.0255, 3.0275, 3.0257, EN AW 1200, EN AW 1050A, EN AW 1070A, EN AW 1350, 1060, 1070, 1080, and 3003.										
GOEDKEURINGEN	CE										
LASPOSITIES											
TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 25%;">Mn</td> <td style="width: 25%;">Cu</td> <td style="width: 25%;">Al</td> <td style="width: 25%;">Si+Fe</td> </tr> <tr> <td>0.03</td> <td>0.1</td> <td>99.4</td> <td>0.5</td> </tr> </table>	Mn	Cu	Al	Si+Fe	0.03	0.1	99.4	0.5		
Mn	Cu	Al	Si+Fe								
0.03	0.1	99.4	0.5								
MECHANISCHE WAARDEN	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 25%;">Heat Treatment</td> <td style="width: 15%;">R_{p0,2} (MPa)</td> <td style="width: 15%;">R_m (MPa)</td> <td style="width: 10%;">A5 (%)</td> <td style="width: 35%;">Hardness</td> </tr> <tr> <td>As Welded</td> <td>52</td> <td>93</td> <td>30</td> <td>HRc</td> </tr> </table>	Heat Treatment	R _{p0,2} (MPa)	R _m (MPa)	A5 (%)	Hardness	As Welded	52	93	30	HRc
Heat Treatment	R _{p0,2} (MPa)	R _m (MPa)	A5 (%)	Hardness							
As Welded	52	93	30	HRc							
HERDROGEN	Not required										
GAS ACC. EN ISO 14175	I1, I3										