



CEWELD AlSi10Cu4

TYPE	Aluminium welding wire 4145 for Tesla																						
APPLICATIONS	Filler metal for welding of AlCu alloys. Approved alloy for structural repairs of TESLA vehicles. Low melting point and excellent penetration characteristics.																						
PROPERTIES	Superior resistance to stress corrosion where high temperature properties are required. It is not recommended to use this alloy for welding aluminium alloys with a high magnesium content. Low melting point: 521 - 584°C																						
CLASSIFICATION	AWS	A 5.10: ER4145																					
	EN ISO	18273: S Al4145																					
	F-nr	22																					
SUITABLE FOR	EN AW 2219 AlCu6Mn EN AW 2014 AlCu4SiMg 3.1255 EN AW 2036 AlCu2,6Si0,5Mg0,3 EN AC 45000 G-AlSi5Cu3 EN AW 4145 AlSi10Cu4 Structural repairs of TESLA vehicles																						
APPROVALS	CE																						
WELDING POSITIONS																							
TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 12.5%;">Si</th> <th style="width: 12.5%;">Mn</th> <th style="width: 12.5%;">Cr</th> <th style="width: 12.5%;">Fe</th> <th style="width: 12.5%;">Cu</th> <th style="width: 12.5%;">Zn</th> <th style="width: 12.5%;">Al</th> <th style="width: 12.5%;">Mg</th> </tr> </thead> <tbody> <tr> <td>9.9</td> <td>0.04</td> <td>0.01</td> <td>0.34</td> <td>3.5</td> <td>0.02</td> <td>Rem.</td> <td>0.03</td> </tr> </tbody> </table>							Si	Mn	Cr	Fe	Cu	Zn	Al	Mg	9.9	0.04	0.01	0.34	3.5	0.02	Rem.	0.03
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9.9	0.04	0.01	0.34	3.5	0.02	Rem.	0.03																
MECHANICAL PROPERTIES																							
REDRYING	Not required																						
GAS ACC. EN ISO 14175	I1, I3																						