

CEWELD ERTi-1

TYPE	Solid Titanium welding wire Grade 1 (purest grade). ERTi-1																	
APPLICATIONS	<p>CEWELD ERTi-1 is the lowest strength unalloyed (or Commercially Pure-CP) grade. Used in applications where ductility is paramount, such as explosive cladding, loose linings, expanded metal, and deep drawing applications. It is also used in electrolytic applications like coated anode substrates for production of chlorine and sodium chlorate. It is the purest grade and is suitable for welding Titanium grade 1, 2, 3 and 4. With the restriction that the mechanical properties are much less than Grade 2, 3 and 4.</p>																	
PROPERTIES	<p>The weld deposit of CEWELD ERTi-1 is ductile and offers excellent corrosion resistance in oxidizing environments. The purity and corrosion resistance makes the alloy a preferred choice in many applications to prevent or solve problems. The wire is cleaned in a very special way to obtain porosity free and a ductile weld deposits</p>																	
CLASSIFICATION	<table border="0"> <tr> <td>AWS</td> <td>A 5.16: ERTi-1</td> </tr> <tr> <td>EN ISO</td> <td>24034: S Ti 0100 / Ti99,8</td> </tr> <tr> <td>W.Nr.</td> <td>3.7026</td> </tr> <tr> <td>F-nr</td> <td>51</td> </tr> </table>						AWS	A 5.16: ERTi-1	EN ISO	24034: S Ti 0100 / Ti99,8	W.Nr.	3.7026	F-nr	51				
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SUITABLE FOR	<p>3.7025, ~3.7035, ~3.7065 Titanium Grade 1, ~2, ~3 and ~4.</p>																	
APPROVALS	CE																	
WELDING POSITIONS																		
TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%)	<table border="1"> <thead> <tr> <th>C</th> <th>H</th> <th>N</th> <th>O</th> <th>Ti</th> <th>Fe</th> </tr> </thead> <tbody> <tr> <td>0.02</td> <td>0.004</td> <td>0.01</td> <td>0.05</td> <td>Rem.</td> <td>0.05</td> </tr> </tbody> </table>						C	H	N	O	Ti	Fe	0.02	0.004	0.01	0.05	Rem.	0.05
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MECHANICAL PROPERTIES	<table border="1"> <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>250</td> <td>320</td> <td>24</td> <td>HRc</td> </tr> </tbody> </table>						Heat Treatment	R _{P0,2} (MPa)	R _m (MPa)	A ₅ (%)	Hardness	As Welded	250	320	24	HRc		
Heat Treatment	R _{P0,2} (MPa)	R _m (MPa)	A ₅ (%)	Hardness														
As Welded	250	320	24	HRc														
REDRYING	Not required																	
GAS ACC. EN ISO 14175	I1																	