



CEWELD Alloy B3 Tig

TYPE	Nickel based wire or rod for welding Hastelloy B2 and B3																							
TOEPASSINGEN	Plants for the production and processing of hydrochloric, sulfuric, acetic and phosphoric acids. Plants for ethylbenzene production. Pressure vessels for chloroprene production. Plants for the production of phenol from isopropyl benzene. Pyrolysis plants for the production of acetic anhydride																							
EIGENSCHAPPEN	CEWELD® Alloy B3 Tig is a nickel-base alloy with excellent resistance tot hydrochlorid acid at all concentrations and tempertures. It also withstands hydrogen chloride, sulfuric, acetic, hydrofluoric nd phosphoric acids. The alloy has improved thermal stability, fabricability and stress corrosion cracking resistance.																							
CLASSIFICATIE	AWS EN ISO W.Nr. F-nr FM	A 5.14: ERNiMo-10 18274: S Ni 1067(NiMo30Cr) 2.4600 43 6																						
GESCHIKT VOOR	Hastelloy B2, Hastelloy B3, 17744, 17750, 17751, 17752, 17753 ASTM: B 333, B 335, B 564, B 619, B 622, B 626																							
GOEDKEURINGEN																								
LASPOSITIES																								
TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%)	<table border="1"> <thead> <tr> <th>C</th> <th>Si</th> <th>Mn</th> <th>Cr</th> <th>Ni</th> <th>Mo</th> <th>Ti</th> <th>V</th> <th>Fe</th> <th>W</th> <th>Co</th> </tr> </thead> <tbody> <tr> <td>0.001</td> <td>0.08</td> <td>0.59</td> <td>1.54</td> <td>67.2</td> <td>28.6</td> <td>0.05</td> <td>0.008</td> <td>1.44</td> <td>0.5</td> <td>0.3</td> </tr> </tbody> </table>	C	Si	Mn	Cr	Ni	Mo	Ti	V	Fe	W	Co	0.001	0.08	0.59	1.54	67.2	28.6	0.05	0.008	1.44	0.5	0.3	
C	Si	Mn	Cr	Ni	Mo	Ti	V	Fe	W	Co														
0.001	0.08	0.59	1.54	67.2	28.6	0.05	0.008	1.44	0.5	0.3														
MECHANISCHE WAARDEN	<table border="1"> <thead> <tr> <th rowspan="2">Heat Treatment</th> <th rowspan="2">R_{P0,2} (MPa)</th> <th rowspan="2">R_m (MPa)</th> <th rowspan="2">A₅ (%)</th> <th colspan="2">Impact Energy (J) ISO-V</th> <th rowspan="2">Hardness</th> </tr> <tr> <th colspan="2">RT</th> </tr> </thead> <tbody> <tr> <td>As Welded</td> <td>540</td> <td>820</td> <td>45</td> <td colspan="2">195</td> <td>HRc</td> </tr> </tbody> </table>	Heat Treatment	R _{P0,2} (MPa)	R _m (MPa)	A ₅ (%)	Impact Energy (J) ISO-V		Hardness	RT		As Welded	540	820	45	195		HRc							
Heat Treatment	R _{P0,2} (MPa)					R _m (MPa)	A ₅ (%)		Impact Energy (J) ISO-V		Hardness													
		RT																						
As Welded	540	820	45	195		HRc																		
HERDROGEN	Not required																							
GAS ACC. EN ISO 14175	I1																							