
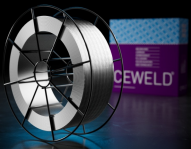


CEWELD Alloy 33

TYPE	High-chromium austenitic alloy																			
ANWENDUNGEN	Typical applications of Alloy 33 include heat exchangers, condenser tubes and other equipment for the Refinery Industry and the Chemical Process Industry as well as light weight structures in the Offshore Industry. Especially the multi-purpose character of Alloy 33 with respect to its corrosion resistance as well to acidic and alkaline media as to chloride bearing cooling waters opens a wide variety of applications																			
EIGENSCHAFTEN	CEWELD Alloy 33 is a high-chromium austenitic Alloy. This alloy combines ease of fabrication with outstanding resistance to highly oxidizing media																			
KLASSIFIKATION	AWS	A 5.9: ER33-31																		
	EN ISO	14343-B: S Z 33 32 1 Cu N L																		
	W.Nr.	1.4591																		
	F-nr	6																		
	FM	6																		
GEEIGNET FÜR	1.4591, 1.4583 X 1CrNiMoCuN 33 32, X 1CrNiMoCuN 33 32 1, X 2 CrNiMo 18 10 Alloy 33, 1.4591																			
ZULASSUNGEN																				
SCHWEISSPOSITIONEN																				
TYPICAL CHEMICAL ANALYSIS OF THE FILLER 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>N</th> <th>Cu</th> <th>Fe</th> </tr> </thead> <tbody> <tr> <td>0.01</td> <td>0.3</td> <td>1.5</td> <td>33</td> <td>32</td> <td>1.5</td> <td>0.5</td> <td>1</td> <td>Rem.</td> </tr> </tbody> </table>	C	Si	Mn	Cr	Ni	Mo	N	Cu	Fe	0.01	0.3	1.5	33	32	1.5	0.5	1	Rem.	
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MECHANISCHE GÜTEWERTE	<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>RT</th> <th>-196°C</th> </tr> </thead> <tbody> <tr> <td>As Welded</td> <td>450</td> <td>920</td> <td>42</td> <td>100</td> <td>32</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	-196°C	As Welded	450	920	42	100	32	HRc			
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		RT	-196°C																	
As Welded	450	920	42	100	32	HRc														
RÜCKTROCKNUNG	Not required																			
GAS ACC. EN ISO 14175	I1																			



CEWELD Alloy 33

ALLOY 33 1,0MM

Packaging	KG/unit	EanCode
BS-300	15	8720663419767