

CEWELD Alloy 33

TYPE High-chromium austenitic alloy

APPLICATIONS 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

PROPERTIES CEWELD Alloy 33 is a high-chromium austenitic Alloy. This alloy combines ease of fabrication with outstanding resistance to highly oxidizing media

CLASSIFICATION

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

SUITABLE FOR 1.4591, 1.4583
X 1CrNiMoCuN 33 32, X 1CrNiMoCuN 33 32 1, X 2 CrNiMo 18 10 Alloy 33, 1.4591

APPROVALS

WELDING POSITIONS



TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)

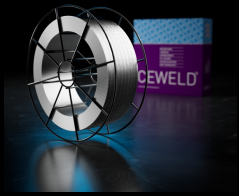
C	Si	Mn	Cr	Ni	Mo	N	Cu	Fe
0.01	0.3	1.5	33	32	1.5	0.5	1	Rem.

MECHANICAL PROPERTIES

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

REDRYING Not required

GAS ACC. EN ISO 14175 11



CEWELD Alloy 33

ALLOY 33 1,0MM

Packaging	KG/unit	EanCode
BS-300	15	8720663419767