

1.4313

	%C	%Si	%Mn	%P	%S	%Cr	%Mo	%Ni	%N
X3CrNiMo13-4	-	-	-	-	-	12.0	0.30	3.50	-
	≤0.05	≤0.70	≤1.50	≤0.040	≤0.015	14.0	0.70	4.50	≤0.020

STEEL PROPERTIES

1.4313 is a martensitic grade with high corrosion resistance, which exhibits good durability after good heat treatment. It has low carbon that offers good strength, toughness and high weldability.

EQUIVALENT GRADES

EN 10088-3	1.4313	X3CrNiMo13-4
AISI	415	
AFNOR	Z6CN13-04	
BS	425C11	
JIS	SUSF6NM	
UNS	S41500	

APPLICATIONS

1.4313 is typically used in oil and gas industry, application of grade 1.4313 includes chemical process plants, flanges, pumps etc.

HEAT TREATMENT

1.4313 is offered in soft annealed solution.

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Mechanical properties at room temperature for 1.4313 as per EN 10088-1 in the usual delivery condition

Flat products with thickness a	Heat Treatment Condition	Hardness HB max.	0.2% Proof strength MPa. min.	Tensile Strength R _m MPa.	A % Min. Long Products
-	+A	320	-	Max 1100	-

Physical properties of 1.4313 as per EN 10088-3

Density Kg/dm ²	Mean Coefficient of thermal expansion 10 ⁻⁶ k ⁻¹ Between 20°C and (°C)					Thermal conductivity W/(m.K)	Specific Heat capacity kJ(kg.K)	Electrical resistivity Ωmm ² /m At 20°C	Magnetizability
	100°C	200°C	300°C	400°C	-				
7.7	10.5	10.9	11.3	11.6	-	25	-	0.60	Yes