1.4125

	%C	%Si	%Mn	%P	%S	%Cr	%Ni	%Mo
X105CrMo17	0.95		-	-	-	16.00	-	0.40
	1.20	≤1.00	≤1.00	≤0.040	≤0.030	18.00	-	0.80

STEEL PROPERTIES

1.4125 grade is a high carbon martensitic stainless steel, capable of attaining after heat treatment, has highest strength, hardness and wear resistance of all the stainless alloys. It's very high carbon content is responsible, which make 1.4125 particularly suited to such applications.

EQUIVALENT GRADES

EN 10088-3	1.4125	X105CrMo17
AISI	440 C	
AFNOR	Z 100 CD 17	
JIS	SUS 440C	
UNS	S44004	

APPLICATIONS

1.4125 is used in rolling elements bearings, valve seats, wear resistance textile components.

HEAT TREATMENT

1.4125 is offered in soft annealed solution.

1.4125

Mechanical properties at room temperature for 1.4125 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 ≤ 100	+A	285	-	-	-

Physical properties of 1.4125 as per EN 10088-3

Density Kg/dm^3	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	-	20°C			
7.7	10.4	10.8	11.2	11.6	-	15	-	0.80	Yes