

1.4460

	%C	%Si	%Mn	%P	%S	%Cr	%Ni	%N	Mo%
X3CrNiMoN27-5-2						25.0	4.50	0.05	1.30
	≤0.05	≤1.00	≤2.00	≤0.035	≤0.030	28.0	6.50	0.20	2.00

STEEL PROPERTIES

1.4460 is duplex low-carbon steel resistant to inter crystalline corrosion, fatigue corrosion, crevice corrosion, pitting and stress corrosion. It exhibits excellent resistance to chlorides and, in addition, is susceptible to mechanical processing. It is characterized by high strength, hardness and good plasticity.

EQUIVALENT GRADES

EN 10088-3	1.4460	X3CrNiMoN27-5-2
AISI	329	
BS	X3CrNiMoN27-5-2	
AFNOR	Z5CND27-05Az	
JIS	SUS329J1TP	
UNS	S32900	

APPLICATIONS

1.4460 is used Propeller- and Pump shafting, Pump- and Valve parts, pistons, stirrers.

HEAT TREATMENT

1.4460 is offered in solution treated condition.

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Mechanical properties at room temperature for 1.4460 as per EN 10088-3 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 ≤ 160	+AT	260	450	620 to 880	20

Physical properties of 1.4460 as per EN 10088-1

Density Kg/dm ²	Mean Coefficient of thermal expansion 10 ⁻⁶ k ⁻¹ Between 20°C and (°C)					Thermal conductivity W/(m.K) 20°	Specific Heat capacity kJ(kg.K) 20°	Electrical resistivity 2 /m At 20°C	Magnetizability
	100°C	200°C	300°C	-	-				
7.8	13.0	13.5	14.0	-	-	15	-	0.8	Yes