1.4003

	%C	%Si	%Mn	%P	%S	%Cr	%Ni	%N
X2CrNi-12	-	-	-	-	-	10.5	0.30	-
	≤0.030	≤1.00	≤1.50	≤0.040	≤0.015	12.5	1.00	≤0.030

STEEL PROPERTIES

1.4003 is a utility ferritic stainless steel, the utility ferritic steel is an alternative to mild steel. 1.4003 is highly alloyed stainless steel such as strength, corrosion and abrasion resistance, durability and low maintenance.

EQUIVALENT GRADES

EN 10088-3	1.4003	X2CrNi-12
AISI	3Cr12	
AFNOR	ZBCA12	
BS	405S17	
UNS	S40977	

APPLICATIONS

1.4003 is used in cable trays, bulk wet material handling, railway car hoppers, tanks and containers. It is used in manufacturing conveyers, chutes, troughs.

HEAT TREATMENT

1.4003 is offered in soft annealed condition.

1.4003

Mechanical properties at room temperature for 1.4003 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	200	260	450 to 600	20

Physical properties of 1.4003 as per EN 10088-3

Density Kg/dm^2	Linear Expansion Coefficient $10^{-6}k^{-1}$ 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	400°C	500°C	25			
7.7	10.4	10.8	11.2	11.6	11.9		-	0.60	yes