1.4529

	%C	%Si	%Mn	%P	%S	%Cr	%Mo	&Ni	%N	%Cu
XNiCrMoCuN25-20-7						19.0	6.00	24.00	0.15	0.50
	≤0.020	≤≤0.50	≤1.00	≤0.030	≤0.010	21.0	7.00	26.00	0.25	1.50

STEEL PROPERTIES

1.4529 has excellent general corrosion resistance as well as improved pitting and crevice corrosion resistance. Stress corrosion cracking resistance is also improved. Super austenitic stainless steel is another name for it.

EQUIVALENT GRADES

EN 10088-3	1.4529	XNiCrMoCuN25-20-7
AISI	926	
AFNOR	Z2NCDU25-20-06-AZ	
BS	-	
JIS	-	
UNS	N0836	

APPLICATIONS

The main uses of this super austenite are in the construction industry, shipbuilding, sea and brackish waters. Chemical industry, flue gas desulfurization system, and medical technology.

HEAT TREATMENT

Solution Annealing (+AT)

1.4529

Mechanical properties at room temperature for 1.4529 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
<160	+A	250	300	650 to 850	40

Physical properties of 1.4529 as per EN 10088-1

Density Kg/dm^3	Linear Expansion Coefficient $10^{-6}k^{-1}$ Between 20°C and (°C)					Thermal conductivity W/(m.K)		Specific Heat capacity kJ(kg.K)	Electrical resistivity $\Omega mm^2/m$ At 20°C	Magnetizability
	200°C	400°C	20°C	100°C	300°C	20°C	500°C			
8.1	16.1	16.9	-	15.8	16.5	12	17.3	450	1.0	No