

# 1.4724

	%C	%Si	%Mn	%P	%S	%Cr	%Al
<b>X10CrAlSi13</b>	-	0.70	-	-	-	12.0	0.70
	0.12	1.40	1.00	0.040	0.015	14.0	1.20

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## STEEL PROPERTIES

Heat-resistant ferritic steel with 13% chromium content with the addition of Aluminum and resistance to 950C in air work. Material shows satisfactory resistance to reducing gases containing sulfur compounds below 850C. Due to the difficulties related to cold forming, molding should be performed at elevated temperatures of 100-350C with cross-sections up to 6mm. Higher distortions and thicknesses should be formed within the 700-850C temp. range.

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## EQUIVALENT GRADES

EN 10095		<b>X10CrAlSi13</b>
AISI	405	
AFNOR	Z10C13	
BS	403S17	
JIS	SUS405	
UNS	-	

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## APPLICATIONS

For construction parts, which should be resistant to scaling up to about 850°C and extensively inured to the effects of sulphurous gases. The inclination to carbonisation in reduced gases is very low.

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## HEAT TREATMENT

Solution annealing.

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**Mechanical properties at room temperature for 1.4724 as per EN 10095 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 <sub>m</sub> MPa.	A % Min. Long Products
<12	+A	192	250	450-650	15

**Physical properties of 1.4724 as per EN 10095**

Density Kg/dm <sup>3</sup>	Linear Expansion Coefficient 10 <sup>-6</sup> k <sup>-1</sup> Between 20°C and (°C)					Thermal conductivity W (m.K)		Specific Heat capacity kJ(kg.K)	Electrical resistivity Ωmm <sup>2</sup> /m At 20°C	Magnetizability
	200°C	400°C	600°C	800°C	1000°C	20°C	500°C			
7.7	10.5	115	12.0	12.5	-	21	23	0.50	0.75	Yes