

### Standards

Material No.	EN Designation	AISI/SAE	UNS
1.4570	X6CrNiCuS18-9-2	303 Cu	S30330

### Description

1.4570 / AISI 304 Cu is an austenitic chromium-nickel stainless steel with copper contents.

### Special properties

Good corrosion resistance and good machinability due to the copper content.

### Chemical Composition

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
≤ 0.08	1.00	2.00	0.045	0.15-0.35
Cr %	Mo %	Ni %	N %	Cu %
17.0-19.0	≤ 0.60	8.00-10.0	≤ 0.11	1.40-1.80

### Mechanical Properties 20°C

Hardness HB 30 ≤ HB	0.2% Yield strength R <sub>p</sub> ≥ N/mm <sup>2</sup>	Tensile strength R <sub>m</sub> N/mm <sup>2</sup>	Elongation A <sub>5</sub> ≥ %	Modulus of elasticity kN/mm <sup>2</sup>
215	175	500-710	50	200

### Physical Properties 20°C

Density g/cm <sup>3</sup>	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm <sup>2</sup> /m
7.9	500	14.6	0.73

### Application

Turned parts for transport, electronics and white goods

### Available forms for 1.4570 / AISI 303 Cu

