

Chemical Composition

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

Description

1.4570 / AISI 303 Cu is an austenitic chromium-nickel stainless steel with copper contents.

Special Properties

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

Steel Grade

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

Mechanical Properties 20 C

Hardness HB 30 ≤ HB	0.2% Yield strength R _p ≥ N/mm ²	Tensile strength R _m N/mm ²	Elongation A ₅ ≥ %	Modulus of elasticity kN/mm ²
215	175	500-710	50	200

Physical Properties 20°C

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

Application

Turned parts for transport, electronics and white goods

Available Forms for AISI303Cu

Sheets/Coils	Bars	Tubes / Pipes	Wires	Fittings	Forged / cast parts	Finished part (drawing)
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