

Standards

Material No.	EN Designation	AISI/SAE	UNS
1.4567	X3CrNiCu18-9-4	304 Cu	S30430

Description

1.4567 / AISI 304 Cu is an austenitic chromium-nickel stainless steel with copper contents.

Special properties

1.4567 / AISI 304 Cu is generally the same grade as 1.4301 / AISI 304, except the additional copper content. Good free machining properties

Chemical Composition

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
≤ 0.04	1.00	2.00	0.045	0.015
Cr %	Ni %	N %	Cu %	
17.0-19.0	8.50-10.5	≤ 0.11	3.00-4.00	

Mechanical Properties 20°C

Hardness HB 30 ≤ HB	0.2% Yield strength $R_p \geq$ N/mm ²	Tensile strength R_m N/mm ²	Elongation $A_5 \geq$ %	Modulus of elasticity kN/mm ²
215	175	450-650	45	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	15	0.73

Suitable welding filler materials

AISI 308 L

Application

Screws for cold upsettings

Available forms for 1.4567 / AISI 304 Cu

