Data sheet

DIN EN 10088-3

Grades AISI 302 HQ / AISI 304 Cu | EN 1.4567

The austenitic material 1.4567, which corresponds to AISI 302 HQ and AISI 304 CU, is a stainless chromium-nickel steel. It differs from the otherwise similar material 1.4301 / AISI 304 by its copper content of 3-4 %, which makes stainless steel 1.4567 ideally suited for cold forming. The material can also be used at low temperatures. Stainless steel 1.4567 has good forging properties and good corrosion resistance (but not to salt water). It is used, among other industries, in the automotive industry and for the production of screws.

Chemical composition (% by mass according to DIN EN 10088-3 for EN 1.4567)

C	Si	Mn	P	S	N	Cr	Cu	Mo	Ni	Ti	Other
≤ 0,04	≤ 1,00	≤ 2,00	≤ 0,045	≤ 0,03	≤ 0,10	17,0 - 19,0	3,0 - 4,0	—	8,5 - 10,5	—	—

Specifications

EN material number	1.4567
EN abbreviation	X3CrNiCu18-9
EN standard	10088-3
AISI	302 HQ* / 304 Cu*
B.S.	394S17
JIS	SUS XM 7
Microstructure class	Austinite

Physical properties

Magnetisability	low
Density(kg/dm³)	7,9
Thermal conductivity (at up to 20°C)	15
Electronic resistance at room temperature (in Ω mm²/m)	0.73

Possible areas of application

Automotive industry
Chemical industry
Manufacture of screws
Kitchen equipment
Food industry
Mechanical engineering
and more

Mechanical properties at room temperature in solution annealed condition (according to EN 10088-3 for EN 1.4567)

Ø	Hardness	Yield strength		Tensile strength	Elongation
in mm	in HB	$R_{p0,2}$ in Mpa	$R_{p1,0}$ in Mpa	R_m in Mpa	A in%
≤ 160	215	175	210	450-650	45
-	-	-	-	-	-

Heat treatment and hot forming

Solution annealing (cooling by air or water)	1000-1100 °C
Hot forming (cooling by air)	1200-900 °C

Welding

The material 1.4567 has good welding properties and can also be welded without filler metal. No heat treatment is required after welding.

(* in accordance with)

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DIN EN 10088-3

Grades AISI 302 HQ / AISI 304 Cu | EN 1.4567

If you have further questions about this or any other product, please contact our team at +49 2263-9240-0 or wire@agst.de

Please note:
The information given in this data sheet has been compiled to the best of our knowledge and is based on the current version of the relevant standard.
It is considered for reference only and we assume no liability for any errors.

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