



Technical Specifications of AISI304

Material Description	Stainless Steel DIN 1.4301
DIN Specifications	DIN 1.4301, DIN 2463, DIN 17451
Specifications Equity	AISI 304, UNS S30400

Composition % per weight

Element	%	Notes
C	Max 0.08	
Cr	18 – 20	
Ni	8 – 10.5	
Fe	66.345 – 74	
Mn	Max 2	
P	Max 0.045	
S	Max 0.03	
Si	Max 1	

Physical Properties

Description	Value	Notes
Density	8 gr/cm ³	
Hardness	29 HRC	
Hardness (annealed)	82 HRB	1100 °C, Cool rapidly

Mechanical Properties

Description	Value	Notes
Elastic Modulus	197 GPa	
Elongation % (break point)	70%	At 50 mm
Shear Modulus	86 GPa	

Main Characteristics

In atmospheric conditions stainless steel DIN 1.4301 has excellent resistance in rusting even with the presence of acids like nitric acid. The material has excellent resistance in alkaline solutions as well as organic and inorganic salts. In general this material is highly resistant to corrosion in atmosphere while in high salt spray like marine environment it might develop superficial staining which might be prevented with cleaning.

G-Style S.A. – Engineering Department

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