

Rust- and acid-proof steel A4

General information

Designation	ISO 426/2 :	X2CrNiMo 18 14 3 AISI 316L
Material number	DIN 17'660 :	1.4435

Physical data

Density	:	7.98	g/cm ³
Elect. conductivity	:	1.37	MS/m

Mechanical data

Tensile strength	Rm :	490 – 690	N/mm ²
Yield strength	Rp0.2 :	190	N/mm ²
Ultimate strain	:	>35	%
Hardness	:	120-180	HB30

Composition

Carbon	C :	<0.03	%
Chrome	Cr :	17.0 – 19.0	%
Nickel	Ni :	12.5 – 15.0	%
Molybdenum	Mo :	2.5 – 3.0	%
Manganese	Mn :	<2.0	%
Silicon	Si :	<1.0	%
Phosphor	P :	<0.045	%
Sulfur	S :	<0.025	%
Iron	Fe :	Residual	

Chemical resistance

Steel A4 is well resistant under normal atmosphere for interior and outside applications, against organic and oxidizing acids, caustic solutions, neutral and alkaline salt solutions as well as organic compounds. Steel A4 is unstable respectively limited resistant against reducing acids (hydrochloric acid, sulfuric acid, etc) halogens, chloride and chloridous solutions (e.g. sea water) or atmospheres (hole and stress corrosion).

AGRO AG

Hunzenschwil, October 22. 2024

This table is arranged to our best knowledge and is to advise you without obligation. All values are approximate values and are based on tests done by our suppliers. Modifications remain reserving.