

AUSTENITIC STEELS

Available Product Variants

Plates

Product Description

A101 is an austenitic stainless Cr-Ni-Mo-steel with sulfur addition for improved machinability, ideal for the production of drilled and milled screenplates and -drums for the pulp and paper industry.

Applications

- > Food processing Industry
- > Medical Instruments & Implants
- > Paper and Pulp Industry / Printing

Technical data

Material designation		Standards	
1.4436+S	SEL	~316	ASTM
~316F	AISI	~326S36	BS

Chemical composition (wt. %)

C	Si	Mn	S	Cr	Mo	Ni
≤ 0,05	0.5	1.8	0.2	17.8	2.7	12

Physical Properties

Density	7.98 0.29	[kg/dm ³ lb/in ³]
Thermal conductivity	15 8.67	[W/(m.K) BTU/ft h °F]
Specific heat	500 119.423	[kJ/kg K BTU/lb °F]
Spec. electrical resistance	0.75 3.54	[Ohm.mm ² /m 10 ⁻⁴ Ohm.inch ² /ft]
Modulus of elasticity	200 29.01	[10 ³ N/mm ² 10 ³ ksi]

Thermal Expansions between 20°C | 68°F and ...

Temperature (°C °F)	100 212	200 392	300 572	400 752	500 932
Thermal expansion (10 ⁻⁶ m/(m.K) 10 ⁻⁶ inch/inch.°F)	16.5 9.2	17.5 9.7	17.5 9.7	18.5 10.3	18.5 10.3

The data contained in this brochure is merely for general information and therefore shall not be binding on the company. We may be bound only through a contract explicitly stipulating such data as binding. Measurement data are laboratory values and can deviate from practical analyses. The manufacture of our products does not involve the use of substances detrimental to health or to the ozone layer.

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ONE STEP AHEAD.