

AUSTENITIC STEELS

Available Product Variants

Plates

Product Description

A506 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 and for food processing industry.

Applications

- > Comps. for Food processing and Animal Feed
- > Paper and Pulp Industry / Printing

Technical data

Material designation		Standards	
1.4305	SEL	303S21	BS
S30300	UNS	303S31	
X8CrNiS18-9	EN	~303S41	
AISI: 303	AISI	~303S42	
~SUS303	JIS		

Chemical composition (wt. %)

C	Si	Mn	S	Cr	Ni
≤ 0,08	0.5	1.8	0.25	17.3	8.3

Physical Properties

Density	7.9 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	0.73 3.45	[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 8.9	16.5 9.2	17 9.4	17.5 9.7	18 10

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.