

CORROSIONS-RESISTANT STEELS - AUSTENITIC STEELS AND NON MAGNETIC 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

> Components for food processing and animal feed

> Paper and Pulp Industry / Printing

Technical data

Material designation		Standards	
1.4305	SEL	303S21	BS
X8CrNiS18-9	EN	303S31	
S30300	UNS	~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	[kg/dm³]
Thermal conductivity	15	[W/(m.K)]
Specific heat	500	[kJ/kg K]
Spec. electrical resistance	0.73	[Ohm.mm²/m]
Modulus of elasticity	200	[10³N/mm²]

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

Temperature (°C)	100	200	300	400	500
Thermal expansion (10 ⁻⁶ m/(m.K))	16	16.5	17	17.5	18

If other available product variants are listed in addition to long products, please note that these may differ in terms of melting process, technical data, delivery and surface condition as well as available product dimensions. For mandatory technical specifications, other requirements and dimensions, please contact our regional voestalpine BÖHLER sales companies. 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.