HABA INOX V2A

Stainless steel
Grinded and rolled plates cut to size

Material no.	1.4301 / 1.4307
Steel quality	Stainless steel
Designation	X5CrNi 18-10

Corrosion-resistant austenitic steel which is used mainly in equipment manufacturing, mechanical engineering, food industry and in the medical field. 1.4301 / 1.4307 is easy to weld, very easy to polish and wear-resistant.

FINISHES

GRINDED

Thickness	grinded Ra1.6 (N7)
Tolerance	+/-0.1 mm
Parallelism	≤0.1 mm
Flatness	≤0.2 mm

ROLLED

Dicke	rolled (pickled)
Toleranz	DIN/EN 10029 class B
Parallelität	DIN/EN 10029
Flatness	surface ≤0.5 m²: ≤0.5 mm surface ≤1 m²: ≤1 mm surface ≥1 m²: ≤1.5 mm

GRINDED AND ROLLED

Length/width	Ra6.3-12.5 cut with a precision circular saw
HABA standard tolerance	nominal size +0.8/+0.3 mm
Customer-specific tolerance	within a tolerance field of 0.4 mm

We can also produce milled blanks on request as well as special thicknesses and tolerances.

TECHNICAL SPECIFICATIONS

Tensile strength	R_m	500-700 (N/mm²)
Yield strength	$R_{p0.2}$	190 (N/mm²)
Breaking strain	(L_o = 5 d_o) A_5	≥45 % along ≥35 % transverse to the rolling direction
Impact energy	A_V (J)	≥100 along ≥60 transverse to the rolling direction
Brinell hardness	HB	≤215
Density		7.9 kg/dm³

CHEMICAL COMPOSITION

Carbon	C	≤0.07 %	Chromium	Cr	17.5-19.5 %
Silicium	Si	≤1.00 %	Molybdenum	Mo	-
Manganese	Mn	≤2.00 %	Nickel	Ni	8.0-10.5 %
Phosphor	P	≤0.045 %	Vanadium	V	-
Sulfur	S	≤0.015 %	Nitrogen	N	≤0.10 %

MATERIAL IN USE

Equipment manufacturing
Pharmacy
Chemical industry
Mechanical engineering
Medical technology
Food industry

APPLICATIONS

Base plates
Side plates
Machined and engineered parts
Machine frames

PROPERTIES

relatively free machining
non-magnetic
easy to polish
wear-resistant
good MIG/TIG weldability
arc welding (gas or autogenous welding with limitations)

We declare that our products are not suitable for any other applications and purposes, other than those specified here and do not have other product properties than those specified here.

HABA Solutions in plates

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