

HABA INOX V2A

Stainless steel

Grinded and rolled plates cut to size

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

Thickness
Tolerance
Parallelism
Evenness

GRINDED

grinded $\leq Ra1.6$ (N7)
+/-0.1 mm
 ≤ 0.1 mm
 ≤ 0.2 mm

ROLLED

Dicke
Toleranz
Parallelität
Evenness

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

GRINDED AND ROLLED

Length/width
HABA standard tolerance
Customer-specific tolerance

Ra6.3-12.5 cut with a precision circular saw
nominal size +0.8/+0.3 mm
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

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

MATERIAL IN USE

Equipment manufacturing
Pharmacy
Chemical industry
Mechanical engineering
Medical technology
Food industry

APPLICATIONS

Base plates
Side plates
Machined and engineered parts of all kinds
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)

