

HABA INOX V4A

Stainless steel

Grinded and rolled plates cut to size

Material no.	1.4404 / 1.4401
Steel quality	Stainless steel
Designation	X2CrNiMo 17-12-2

1.4404 / 1.4401 is a non-corroding and acid-resistant austenitic steel. It is used in the field of medical, chemical and food industries.

FINISHES

Thickness	grinded \leq Ra1.6 (N7)
Tolerance	+/-0.1 mm
Parallelism	\leq 0.1 mm
Evenness	\leq 0.3 mm

GRINDED

Thickness	rolled (pickled)
Tolerance	DIN/EN 10029 class B
Parallelism	DIN/EN 10029
Evenness	surface \leq 0.5 m ² : \leq 0.5 mm surface \leq 1 m ² : \leq 1 mm surface \geq 1 m ² : \leq 1.5 mm

ROLLED

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/mm ²)
Yield strength	$R_{p0.2}$	200 (N/mm ²)
Breaking strain	$(L_o = 5 d_o) A_5$	\geq 40 % along \geq 30 % transverse to the rolling direction
Impact energy	A_v (J)	\geq 100 along \geq 60 transverse to the rolling direction
Brinell hardness	HB	\leq 215

CHEMICAL COMPOSITION

Carbon	C	\leq 0.03 %	Chromium	Cr	16.5-18.5 %
Silicium	Si	\leq 1.00 %	Molybdenum	Mo	2.00-2.50 %
Manganese	Mn	\leq 2.00 %	Nickel	Ni	10.0-13.0 %
Phosphor	P	\leq 0.045 %	Vanadium	V	-
Sulfur	S	\leq 0.015 %	Nitrogen	N	\leq 0.11 %

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
good MIG/TIG weldability
arc and resistance welding (gas or auto-genous welding with limitations)

