HABA Horizontal Cast 7021

DIN Material no.

Designation

EN AW-7021

Material code

AlZn5.5Mg1.5

State

T73

Milled aluminium casting plates | cut to size

Horizontal Cast 7021 is a age-hardened, horizontally cast aluminum plate that meets the most stringent requirements for strength and machining properties. The special manufacturing process is according to strict HABA factory standards. These standards apply to all process steps and are a guarantee for the excellent properties, homogeneous microstructure, and gas- and vacuum tightness. Temper T73 ensures the best corrosion resistance.

FINISHES

Thickness precisely milled Ra0.8 (N6)

 Tolerance
 +/-0.1 mm

 Protective film
 on both sides

 Cardboard
 one-sided

 Parallelism
 ≤0.05 mm

 Evenness
 ≤0.2 mm

 Length/width
 Ra3.2-6.3

cut with a precision circular saw

340-390 (N/mm²)

HABA standard tolerance nominal size +0.8/+0.3 mm

Customer-specific tolerance within a tolerance field of 0.4 mm

We also produce other thicknesses and tolerances on request, as well as band-sawn plates and cuts.

TECHNICAL SPECIFICATIONS

Tensile strength R_

Thermal expansion coefficient 24 x 10^{-6} /K Electrical conductivity 20-27 m/ Ω mm²

INSTRUCTIONS

HABA Horizontal Cast 7021 is well suited for machining. The chippings are short and break well. Use tools for working aluminium with a cutting speed >2000 m/min. Threads are produced favourably with thread moulders.

CHEMICAL COMPOSITION

Magnesium	Mg	1.20-1.80 %	Copper	Cu	≤0.25 %
Manganese	Mn	≤0.20 %	Titanium	Ti	≤0.10 %
Chromium	Cr	≤0.25 %	Zinc	Zn	5.00-6.00 %
Iron	Fe	≤0.40 %	Other elements together		≤0.15 %
Silicium	Si	≤0.25 %	Other elements individually		≤0.05 %

MATERIAL IN USE

Mechanical engineering
Special purpose machinery
Jig manufacturing
Toolmaking
Mould construction
Apparatus construction

APPLICATIONS

Base plates Rotary tables Table tops

Foam, deep-draw and sample moulds

PROPERTIES

machinability very good dimensional stability good MIG/TIG weldability very good Weatherproofness good Seawater resistance good Contact with foodstuffs no

Decorative anodisation moderate
Protective anodisation good
Paintwork, coating good
Galvanic coating good
Chemical nickel coating good

GAS IMPERMEABILITY

Suitable for vacuum applications



