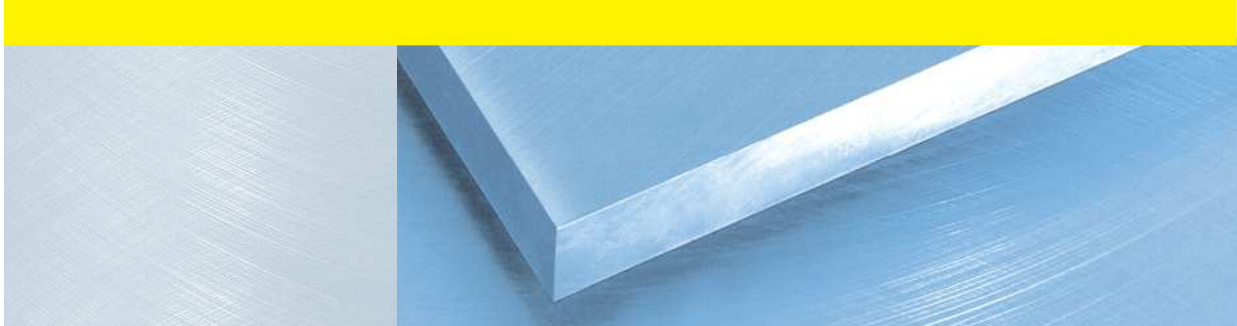


HABA G-Alu340

Casting plate
7xxx
(AlZn5Mg1)

Sawn or milled aluminium casting plates
cut to size



Finishes

Sawn blanks

Thickness cut by band saw Ra25 (N11)
tolerance +1/0 mm

Parallelism
≤0.3 mm

Evenness
≤0.5 mm

Precisely milled blanks

Thickness precisely milled ≤Ra0.8 (N6)
tolerance +0.1 mm
one-sided protective film
one-sided cardboard

Parallelism
≤0.05 mm

Evenness
≤0.2 mm

Milled and sawn blanks

Length/width
Ra3.2-6.3
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 also produce other thicknesses and tolerances on request.

Technical specifications

Tensile strength
 $R_m \geq 340$ (N/mm²)

Yield strength
 $R_{p0.2} \geq 300$ (N/mm²)

Breaking strain ($L_0 = 5 d_0$)
 $A_5 \geq 5$ %

Brinell hardness
(HB) ≥110

Density 2.77 kg/dm³

E-module ~70.000 N/mm²

Thermal conductivity coefficient
110-120 W/mK

Thermal expansion coefficient
 $24 \times 10^{-6}/K$

Electrical conductivity
20-23 m/Ω mm²

Chemical composition

Mg 0.70-1.20 % Si ≤0.10 %
Mn 0.045-0.125 % Cu ≤0.05 %
Cr 0.080-0.24 % Ti 0.01-0.15 %
Fe 0.095-0.20 % Zn 5.0-6.0 %

Instructions

HABA G-Alu340 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.

Gas impermeability

Suitable for vacuum applications up to 20 mbar.

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
Machined and engineered parts of all kinds

Properties

very good machinability
great dimensional stability
good weldability according to MIG/TIG processes
good corrosion resistance against weather and seawater

Surface treatment

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

