

HABA G-Alu340

Milled aluminium casting plates
cut to size

G-Alu340 is an aluminium casting plate with significantly higher dimensional stability than naturally hardened casting plates. We achieve the persistent equal strength with a multi-stage process of heat-treating and natural aging. The material stands out for its excellent machinability and great stability.

FINISHES

Thickness	precisely milled Ra0.8 (N6)
Tolerance	0/+0.1 mm
Protective film	two-sided
Cardboard	one-sided
Parallelism	≤0.05 mm
Flatness	≤0.2 mm
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 special thicknesses and tolerances on request.

TECHNICAL SPECIFICATIONS

Tensile strength R_m	≥340 (N/mm ²)
Yield strength $R_{p0.2}$	≥300 (N/mm ²)
Breaking strain ($L_o = 5 d_o$) A_5	≥3 %
Brinell hardness (HBS)	≥110
Density	2.77 kg/dm ³
E-module	~70.000 N/mm ²
Thermal conductivity coefficient	110-120 W/mK
Thermal expansion coefficient	24 x 10 ⁻⁶ /K
Electrical conductivity	20-27 m/Ω mm ²

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.

CHEMICAL COMPOSITION

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

DIN Material no.	-
Designation	EN AW-7021
Material code	AlZn5.5Mg1.5
State	Casting plate, T6

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	very good
Weldability (WIG/MIG)	very good
Weatherproofness	good
Seawater resistance	good
Contact with foodstuffs	no

SURFACE TREATMENT

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

GAS IMPERMEABILITY

Suitable for vacuum applications up to 20 mbar.

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.

