HABA HC5754

Milled aluminium casting plates | cut to size

DIN Material no.	3.3535
Designation	Cast plate, similar: EN AW-5754 EN AW-AlMg3
Material code	AlMg3
State	homogenised, O3

HABA HC5754 is a naturally hard horizontally casted aluminium plate which fulfils the most demanding machinability and dimensional stability requirements. HABA HC5754 is excellent suited for decorative and technical anodizing. The special casting process is the guarantee for the homogenous join and the vacuum tightness.

FINISHES

Thickness	precisely milled Ra0.8 (N6)
Tolerance	+/-0.05 mm
Protective film	on both sides
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 other thicknesses and tolerances on request.

TECHNICAL SPECIFICATIONS

Tensile strength	R_m	190-230 (N/mm²)
Yield strength	$R_{p0.2}$	≥80 (N/mm²)
Breaking strain	(L_o = 5 d_o) A_5	≥12 %
Brinell hardness	(HBS)	~55
Density		2.66 kg/dm³
E-module		70.500 N/mm²
Thermal conductivity coefficient		140-160 W/mK
Thermal expansion coefficient		24 x 10^{-6}/K
Electrical conductivity		17-23 m/Ω mm²
State		homogenised and stress-annealed, O3

INSTRUCTIONS

HC5754 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	2.60-3.60 %	Copper	Cu	≤0.10 %
Manganese	Mn	≤0.50 %	Titanium	Ti	≤0.15 %
Chromium	Cr	≤0.30 %	Zinc	Zn	≤0.20 %
Iron	Fe	≤0.40 %	Other elements together		≤0.15 %
Silicium	Si	≤0.40 %	Other elements individually		≤0.05 %

MATERIAL IN USE

Plant and apparatus construction
Vehicle construction
Prototype construction
Mechanical engineering
Architecture

APPLICATIONS

Front panels
Case
Base plates
Side walls

PROPERTIES

Machinability	very good
Dimensional stability	very good
Weldability (WIG/MIG)	good
Weatherproofness	very good
Seawater resistance	very good
Technical anodisation	very good
Decorative anodisation	very good
Contact with foodstuffs	yes

SURFACE TREATMENT

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

HABA HC5754 is primarily suitable for decorative applications.
Recommendations for the anodising process can be found in the HABA anodising guide or contact your anodising company.

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.

HABA Solutions in plates

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