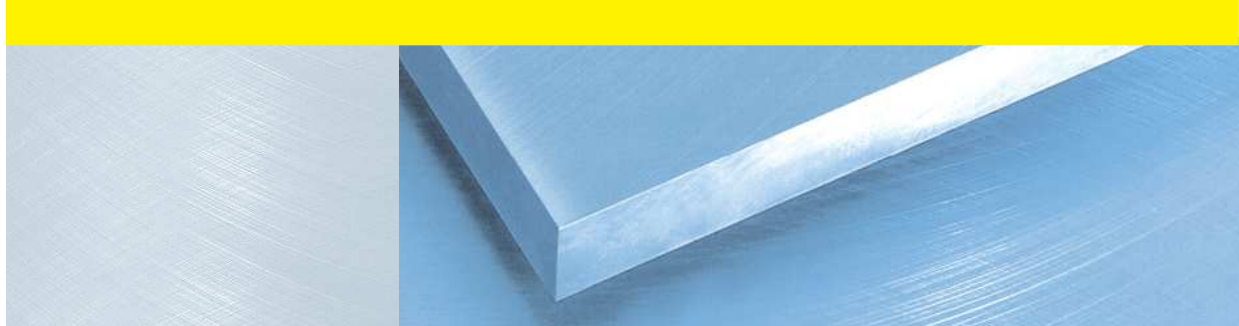


HABA G-Alu25

Sawn or milled aluminium casting plates
cut to size

Cast plate, similar:
EN AW-5083
EN AW-AMg4.5Mn0.7
Material code: AIMg4.5Mn
Material no.: 3.3547
State: homogenised



Finishes

Sawn blanks

Thickness cut by band saw Ra25 (N12)
tolerance +1/0 mm

Parallelism

0.3 mm

Evenness

0.3 mm

Finely milled blanks

Thickness precisely milled \leq Ra0.8 (N6)
tolerance +/-0.05 mm
one-sided protective film
one-sided cardboard

Parallelism

\leq 0.05 mm

Evenness

\leq 0.2 mm

Milled and sawn blanks

Length/width

Ra3.2-6.3

cut with a precision circular saw
cut edges deburred

HABA standard tolerance

nominal size +0.8/+0.3 mm

Customer-specific tolerance

within a tolerance field of 0.4 mm

Surface treatment

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

Technical specifications

Tensile strength

$R_m \geq 250$ (N/mm²)

Yield strength

$R_{p0.2} \geq 115$ (N/mm²)

Breaking strain ($L_0 = 5 d_0$)

A_5 6-10 %

Brinell hardness

(HBS) ≥ 70

Density

2.66 kg/dm³

E-module

~ 70.000 N/mm²

Thermal conductivity coefficient

110-140 W/mK

Thermal expansion coefficient

24×10^{-6} /K

Electrical conductivity

16-19 m/ Ω mm²

State

homogenised

Chemical composition

Mg 4.0-4.9 %	Cu \leq 0.10 %
Mn 0.4-1.0 %	Ti \leq 0.15 %
Cr 0.05-0.25 %	Zn \leq 0.25 %
Fe \leq 0.40 %	other elements
Si \leq 0.40 %	single $<$ 0.05 %
	together $<$ 0.15 %
	rest alu

Instructions

HABA G-Alu25 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.

Material in use

Plant and apparatus construction
Vehicle construction
Jig manufacturing
Prototype construction
Mechanical engineering
Toolmaking and mould construction
Ship and offshore construction
Low-temperature technology

Applications

Base plates
Rotary tables
Side walls
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
excellent corrosion resistance
against weather and seawater

We also produce other thicknesses and tolerances on request.

