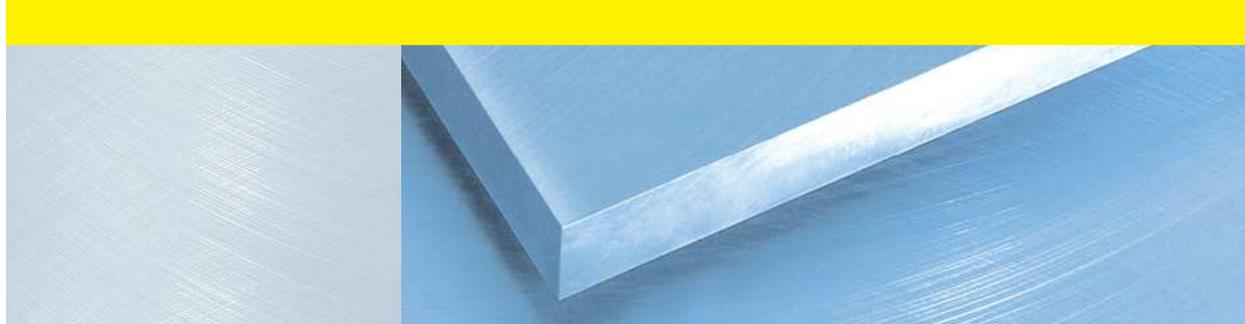


# HABA G-Alu25

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/mm<sup>2</sup>)

### Yield strength

$R_{p0.2} \geq 115$  (N/mm<sup>2</sup>)

### Breaking strain ( $L_0 = 5 d_0$ )

$A_5$  6-10 %

### Brinell hardness

(HBS)  $\geq 70$

### Density

2.66 kg/dm<sup>3</sup>

### E-module

$\sim 70.000$  N/mm<sup>2</sup>

### Thermal conductivity coefficient

110-140 W/mK

### Thermal expansion coefficient

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

### Electrical conductivity

16-19 m/ $\Omega$  mm<sup>2</sup>

### 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.

