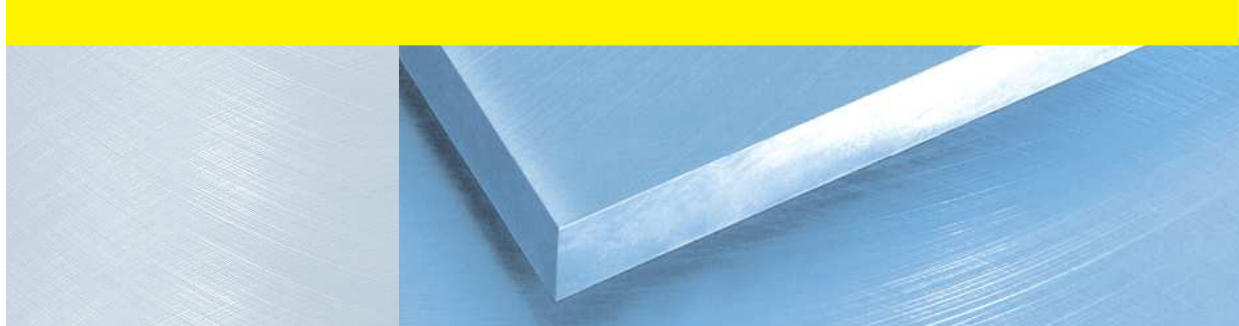


HABA Alu6082

As-rolled or milled rolled aluminium plates
cut to size

EN AW-6082
EN AW-AISi1MgMn
Material code: AlMgSi1
Material no.: 3.2315
State: T6/T651



Finishes

Milled rolled blanks

Thickness

precisely milled <math><Ra0.8</math> (N6)
tolerance ± 0.1 mm
one-sided protective film
one-sided cardboard

Parallelism

≤ 0.05 mm

Evenness

≤ 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

As-rolled blanks

Thickness

as-rolled EN 485-3/4

Parallelism

EN 485-3/4 ($\leq 0.2/100$)

Evenness

≤ 0.5 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 75-350 (N/mm²)

Yield strength

$R_{p0.2}$ 240-310 (N/mm²)

Breaking strain ($L_0 = 5 d_0$)

A_5 6-10 %

Brinell hardness

(HBS) 84-104

Density

2.7 kg/dm³

E-module

~ 70.000 N/mm²

Thermal conductivity coefficient

170-220 W/mK

Thermal expansion coefficient

$23.4 \times 10^{-6}/K$

Electrical conductivity

24-32 m/ Ω mm²

State

<math><10</math> mm T6

>10 mm T651

Chemical composition

Si 0.7-1.3 % Cu ≤ 0.10 %

Mg 0.6-1.2 % Ti ≤ 0.10 %

Mn 0.4-1.0 % Zn ≤ 0.20 %

Cr ≤ 0.25 % Rest ≤ 0.15 %

Fe ≤ 0.5 % Single ≤ 0.15 %

Instructions

Use tools for working aluminium
with a cutting speed >2000 m/min.

Material in use

Apparatus construction
Mechanical engineering
Jig manufacturing
Vehicle construction
Special purpose machinery
Plant construction
Mould construction of all kinds

Applications

Base plates
Side walls
Vehicle parts
Blow and foaming moulds
Machined and engineered parts
of all kinds

Properties

good machinability
medium to good dimensional stability
very good weldability (MIG/TIG process)
excellent corrosion resistance against
weather and seawater
good decorative eloxadisation
very good protective anodisation
very suitable for galvanic coatings and
chemical nickel-plating

