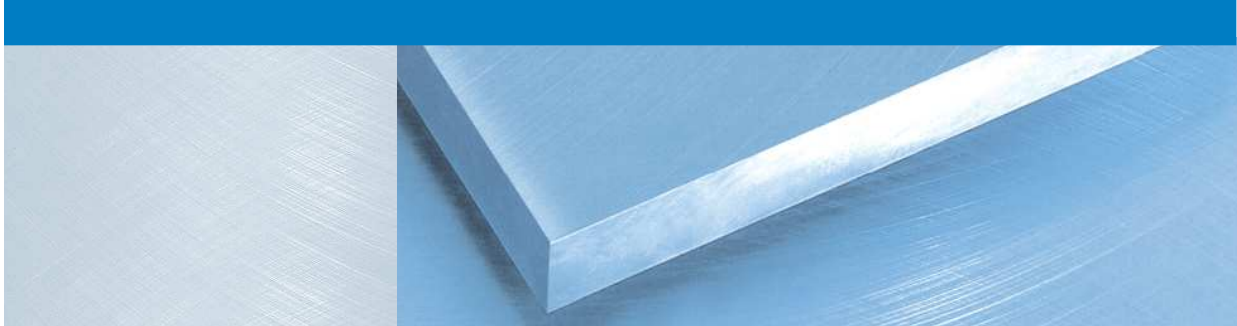


# HABA K52

1.0577 / S355J2+N

## Engineering steel

Grinded plates cut to size



### Finishes

#### Thickness

grinded  $\leq Ra1.6$  (N7)  
tolerance  $+0.25/0$  mm

#### Parallelism

$\leq 0.05$  mm

#### Evenness

$\leq 0.2$  mm

#### Length/width

$Ra6.3-12.5$   
cut with a precision circular saw

#### HABA standard tolerance

Nennmass  $+1.0/0$  mm

#### Customer-specific tolerance

within a tolerance field of 0.4 mm

#### Surface refinement

All metallic and non-metallic  
coatings

We also manufacture rolled  
and milled blanks on request  
as well as special thicknesses  
and tolerances.

### Technical specifications

#### Tensile strength

$R_m$  470-630 (N/mm<sup>2</sup>)

#### Yield strength

$R_{eH}$  295-355 (N/mm<sup>2</sup>)

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

$A_5$  17-22 %

#### Impact energy

$A_v$  (J)  $\geq 27$ , test temp.  $-20^\circ\text{C}$

#### Density

7.85 kg/dm<sup>3</sup>

#### E-module

$\sim 210$  kN/mm<sup>2</sup>

#### Thermal conductivity coefficient

(W/mK) 35-45

#### Thermal expansion coefficient

( $10^{-6}/\text{K}$ ) 11-14

### Chemical composition

C  $\leq 0.20$  % P  $\leq 0.035$  %

Si  $\leq 0.55$  % S  $\leq 0.035$  %

Mn  $\leq 1.60$  %

### Material in use

Apparatus construction  
Specialised mechanical engineering  
Jig manufacturing  
Prototype construction  
Mechanical engineering  
Toolmaking  
Mould construction  
Plant construction

### Applications

Base plates  
Mounting plates  
Table tops  
Machined and engineered parts of  
all kinds

### Properties

very good machinability  
very good dimensional stability  
good weldability

