

HABA PLANSTAHL

Engineering steel

Grinded plates cut to size

Material no.	1.0577
Steel quality	Engineering steel
Designation	S355J2+N

Normalised heat-treated steel well suited for welding and for basic machine components. Planstahl comes mainly into use in mechanical engineering, vehicle and tool construction.

FINISHES

Thickness	grinded Ra1.6 (N7)
Tolerance	+0.3/0 mm
Parallelism	≤0.1 mm
Evenness	≤0.3 mm
Length/width	Ra6.3-12.5 cut with a precision circular saw
HABA standard tolerance	nominal size +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 ²)
Yield strength	R_{eH}	295-355 (N/mm ²)
Breaking strain	$(L_o = 5 d_o) A_5$	17-22 %
Impact energy	A_V (J)	≥27, test temp. -20°C
Density		7.85 kg/dm ³
E-module		~210 kN/mm ²
Thermal conductivity coefficient		35-45 (W/mK)
Thermal expansion coefficient		11-14 (10 ⁻⁶ /K)

CHEMICAL COMPOSITION

Carbon	C	≤0.20 %	Chromium	Cr	-
Silicium	Si	≤0.55 %	Molybdenum	Mo	-
Manganese	Mn	≤1.60 %	Nickel	Ni	-
Phosphor	P	≤0.035 %	Vanadium	V	-
Sulfur	S	≤0.035 %	Nitrogen	N	-

MATERIAL IN USE

Apparatus construction
Jig manufacturing
Mould construction
Mechanical engineering
Toolmaking

APPLICATIONS

Base plates
Mounting plates
Table tops

PROPERTIES

machinability	good
dimensional stability	good
weldability	good

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.

