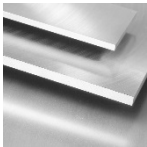


Alloy Designation

ALUMINIUM Quality according to DIN EN 573-3	PREMIUM EN AW-7021
Chem. Designation according to DIN EN 573-3	EN AW-AlZn5,5Mg1,5
Abbreviation according to DIN 1712-3	AlZn5.5Mg1.5
Material No. / Werkstoff-Nr. according to DIN 1712-3	-

Specification



ALU-Präz® [ALU]
L: 500 mm
L: 1,000 mm

Chemical composition EN AW 7021 (reference values as weight percent)

Si	Fe	Cu	Mn	Mg	Zr	Zn	Ti
0 – 0.25	0 – 0.4	0 – 0.25	0 – 0.1	1.2 – 1.8	0.08 – 0.18	5 – 6	0 – 0.1

Mecanical properties (ambient temperatur / thickness dependent)

Tensile strength R_m	approx.. 320 - 380 [N/mm ²]
Yield strength $R_{p0.2}$	290 - 340 [MPa]
Elongation A_{50}	2.5 – 4.5 [%]
Hardness (delivery condition)	max. 120 [HB]

Physical properties (ambient temperatur / characteristic values)

Density	2.8 [g/cm ³]
Modulus of elasticity	70 [GPa]
Electrical conductivity	21 - 24 [m/Ω · mm ²]
Thermal expansion coefficient	23.0 [K ⁻¹ · 10 ⁻⁶]
Thermal conductivity	125 - 155 [W/m · K]
Specific thermal capacity	875 [J/kg · K]

Technical properties

This high strength cast aluminium plate is particularly characterised due to its very good dimensional stability, which is combined with very good machinability and is both technically and hard anodisable. In addition the material is weldable and has a good corrosion resistance.

Applications

Tool making, mould making, model making, transfer plates, base plates, table tops, mounting plates, mechanical parts, mechanical engineering, jigs and fixtures, injection moulding tools, defence technology, press components.

