

Cast 5083 Aluminium Tooling Plate

An aluminium grade used commonly in the tool making and mould and model making industries, also in blow moulds and injection moulds. The alloy has very good machinability, with excellent corrosion resistance. Also with good welding properties, the material has low stress and is stable. Material is supplied scratch-free with poly-coating both sides and with tolerances on thickness of +/- 0.1mm.

Availability

Material thicknesses available from stock from 5mm up to 60mm.

Mechanical Properties

Tensile Strength	min 230 MPa - max 290 MPa
Elastic Limit	min 110 MPa - max 130 MPa
Elongation	15% Min
Hardness	70-80 HBW

READYMILLED.COM

Rectangular sections from 25mm³ up to 430 x 430 x 150mm can be delivered fine milled on all six faces to -0/+0.1mm and with squareness guaranteed to 0.1mm/m.

Chemical Composition

Si	0.4	Fe	0.4
Cu	0.1	Mn	0.4-1.0
Mg	4.0-4.9	Cr	0.05-0.25
Ni	-	Zn	0.25
Ti	0.15	Other Each	0.05
Other Total	0.15		