

Cast and homogenized plates in EN-AW 5083 aluminum alloy sawn with a band sawing machine on 6 sides. The blocks made are particularly appreciated for the production of moulds thanks to the exceptional shape stability and machinability.

**Chemical composition EN AW 5083**

Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Zr	Pb	Bi	Others	Al
max 0,40	max 0,40	max 0,10	0,40 - 1,00	4,00 - 4,90	0,05 - 0,25	-	max 0,20	max 0,50	-	-	-	max 0,15	residual

**Mechanical characteristics**

<b>Molten 485-2</b>	Tensile strenght Rm min (MPa)	Yield strenght Rp0,2 min (MPa)	Lengthening A % min	Hardness HB min
5083 "0"	250	120	4	60

**Properties**

Machinability	Anodization		Corrosion resistance		Plastic deformability		Weldability
	Decor.	Hard with thick	Atmospheric	Saltwater	Cold	Hot	
😊	😊	😊	😊	😊	-	-	😊



Map key



Excellent/good



Sufficient



Bad

**Physical characteristics**

Density	Kg/dm3	2,66
Modulus of elasticity Mpa	MPa	70.000
Coefficient of thermal expansion	x10 -6/°C	23,3
Electrical conductivity at C20°	m/Ω x mm2	16-18
Thermal conductivity at C20°	W/ mk	110-130