

G.AL® C330 DYNAMIC

Alloy's Characteristics	
Alloy	EN AW 7021
Type of Alloy	non heat treatable
Temper	T79
Surface	6-sides sawn, < 15 µm

Mechanical Properties ¹⁾		Typical values
Yield strength R _{p0,2}	[MPa]	290 - 330
Ultimate tensile strength R _m	[MPa]	350 - 370
Elongation A	[%]	5 - 8
Hardness HBW	[2,5/62,5]	110 - 115

Physical Properties ¹⁾		Typical values
Density	[g/cm ³]	2,80
Module of elasticity	[GPa]	70
Electrical conductivity	[m/Ω · mm ²]	21 - 24
Coefficient of thermal expansion	[K ⁻¹ · 10 ⁻⁶]	23,3
Thermal conductivity	[W/m · K]	125 - 155
Specific heat capacity	[J/kg · K]	875

Processing Characteristics ²⁾	
Dimensional stability	1 - 2
Machinability	1
Weldability (Gas / TIG / MIG / Resistance / EB)	6 / 5 / 2 / 6/ 1
Corrosion resistance (seawater / weather/ stress cracking)	4 / 3 / 3
Use at temperatures (max °C long/short terms) ³⁾	120 / 140
Anodising (technical / decorative / hard-) ⁴⁾	3 / 6 / 2
Polishability	1
Etching	2
Contact with food (according to EN 602)	no

Tolerances			
Thickness in [mm]	Flatness [mm] ⁵⁾	Thickness [mm]	Width & Length [mm]
≤ 150		-0/ + 2,5	DIN ISO 2768-1m
> 150		-0/ +5	-0 / + 5

Standard Stock Sizes
Other dimension upon request

Date: 12.07.2016

- 1) Typical values at room temperature.
- 2) Ratings evaluation rating from 1 (very good) to 6 (inapplicable).
- 3) Without loss of strength after cooling down.
- 4) Technical anodising only - no warranty towards optical demands.
- 5) Surface flatness for whole plates is measured with a special, 1 meter long, digital flatness ruler.

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