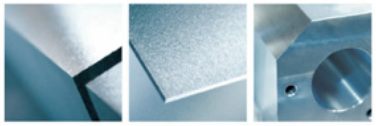

G.AL® C250 - precision milled plate

Plate's Characteristics	
Alloy	EN /AA 5083
Type of Alloy	non heat treatable
Temper	homogenised and stress relieved
Surface	precision milled, roughness Ra 0,4 µm, foiled on both sides

Mechanical Properties [1]		Typical values
Yield strength $R_{p0,2}$	[ksi]	16 – 19
Ultimate tensile strength R_m	[ksi]	33 – 42
Elongation A_5	[%]	10 – 15
Hardness HBW	[2.5/62.5]	68 – 75

Physical Properties [1]		Typical values
Density	[lbs/cu in.]	0.096
Module of elasticity	[ksi·10³]	10.2
Electrical conductivity	[% IACS]	29 – 32
Coefficient of thermal expansion	[10^{-6} /°F]	13.1
Thermal conductivity	[BTU in/ft²hr°F]	760 – 900
Specific heat capacity	[BTU/lb°F]	0.214

Processing Characteristics [2]	
Dimensional stability	1
Machinability	2
Erodability	1
Weldability (Gas / TIG / MIG / Resistance / EB)	4 / 2 / 2 / 2 / 1
Corrosion resistance (seawater / weather/ stress cracking)	1 / 1 / 4
Use at temperatures (max°F / long / short / terms) [3]	356 / 536
Anodising (technical / decorative / hard-) [4]	2 / 4 / 2
Polishability	2 – 3
Etching	4 – 5
Contact with food (according to EN 602)	yes

Tolerances			
Thickness in [in]	Flatness [in] [5]	Thickness [in]	Width & Length [in]
0.250	0.030	+/- 0.004	-0 / + 0.79
< 0.500	0.015	+/- 0.004	-0 / + 0.79
> 0.500	0.005	+/- 0.004	-0 / + 0.79
cuts			DIN ISO 2768-1(m)

Standard Stock Sizes		
Plate Dimension [mm]	59.8 × 118.9	in thickness of 0.197 – 4.000[in] mm
	48.5 × 144.5	in thickness of 0.197 – 4.000[in] mm
	61.8 × 144.5	in thickness of 0.197 – 4.000[in] mm
	85.0 × 157.4	in thickness of 0.394 – 4.000[in] mm
Plate Thickness [mm]	0.197 – 4.000	
	.	
	.	
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.