

## Which aluminum for which vacuum type?

Vacuum Classification	Vacuum Level / Pressure [mbar]	Application / Examples
Atmospheric	1013,25	All alloys, all types <b>G.AL®-Family C210R/C250, C330</b>
Low atmospheric pressure	> 300	
Low Vacuum (LV) / Rough Vacuum (RV)	300 ... 1	
Medium Vacuum (MV) / Intermediate Vacuum	1 ... 10 <sup>-3</sup>	Most alloys EN AW 6000 + 5000 <b>G.AL® C210/C250-Family</b>
High Vacuum (HV)	10 <sup>-3</sup> ... 10 <sup>-7</sup>	Alloys EN AW 5000 (min. wall thickness 10 mm).
		<b>G.AL® C210R/C250:</b> wall thickness >10 mm: proven vacuum-sealed up to 10 <sup>-5</sup> mbar wall thickness >30 mm: proven vacuum-sealed up to 10 <sup>-7</sup> mbar
		All thicknesses: Guaranteed vacuum at wall thickness 10 mm <b>G.AL® C210 DYNAMIC</b>
Ultra High Vacuum (UHV) Extreme Ultrahigh Vacuum (XHV)	10 <sup>-7</sup> ... 10 <sup>-12</sup>	Rolled plates EN AW 5000, wall thickness >10 mm: max. 10 <sup>-10</sup> mbar
		Standard cast plates up to 10 <sup>-7</sup> mbar
		proven vacuum-sealed <b>G.AL® C210 DYNAMIC</b>
Ultra High Vacuum (UHV) Extreme Ultrahigh Vacuum (XHV)	< 10 <sup>-12</sup>	<b>G.AL® C210 DYNAMIC</b> up to 10 <sup>-13</sup> mbar
		Powder metallurgy materials
Interstellar Vacuum / Interstellar Space	0	

1 mbar = 1 hPa