

<u>DESIGNING FOR</u> PERMANENT MOLD:

Designing for the Permold process is intuitive. As in most casting processes, draft, radius, and wall thickness are the main design elements critical to good castability. Our engineering staff is available around the clock to help you get the most out of your investment. Gupta Permold meets and/or exceeds the Aluminum Association Standards for Permanent Mold Castings.

<u>CONTACT GUPTA</u> <u>PERMOLD:</u>

Gupta Permold Corp. Casting Div. Sales Dept. 234 Lott Road Pittsburgh, PA 15235 Ph: (412) 793-3511 Fax: (412) 793-1055 www.guptapermold.com sales@guptapermold.com

	Range (in.)		Normal Standard	
	From	То	Base	Each Add'l in.
Linear Tolerance				
One Side of Parting Line (Basic):	0	1	+/015	+/002
Across Parting Line (Add'1):	Tolerance	is added as	a function of j	projected parting
	face surface area. Consult foundry for details.			
	0 in^2	10 in^2	+/010	
	10 in^2	50 in^2	+/015	
	50 in ²	100 in ²	+/020	
Flatness				
	0	6	+/020	+/002
Concentricity				
Same Plane:	0	5	+/025	+/003
Across Parting Line:	0	10	+/040	+/003
Machine Stock Allowance				
	0	12	1/16	
	12	18	3/32	
	18	24	1/8	
Wall Thickness				
Minimum:	-		0.125	
*note: Minimum wall thickness increases logarithmically with surface area				
Draft				
3 Deg. min. on all Surfaces Perpendicular to Parting Line				
3 Deg. min. on Cored Pockets & Holes (Draft Decreases Inversely with Length of Draw)				
*note: Add'l draft extends mold life and makes better, cleaner castings				
Radius				
Razor Sharp Corners not Possible (in all foundry)				
Recommended Blending Radius of t between 2 Walls of Thickness t				
For Radii Between 2 Non-Uniform Walls, Use the Average Wall Thickness				



NOTE: Wall thickness values are minimums for castings of minimal complexity. Thickness values need to be increased as part complexity rises. Please consult Gupta Permold Engineering for specific job analysis.



Gain the Advantage.[™]