

Glasscell 10-20-25-38

Hollow Glass Microspheres



Typical performances :

- * Soda-lime-borosilicate glass
- * Chemical stability
- * Corrosion resistance
- * High filler loading capacity
- * White filler
- * Reduced dielectric constant
- * Reduce warpage/shrinkage
- * Sandability/machinability
- * Temp resistance up to 600 °C
- * Fire resistant
- * Thermal insulation
- * Water resistance
- * Weight reduction
- ...

Possible Applications

- * Building material : caulks, adhesives, cultured marble, mastics, paints, roof coating
- * Epoxy / Polyester / PU putty
- * Lightweight casting, deep sea hydrospaces syntactic foams
- * Aerospace and marine composites, potting compounds and radomes

Physical Properties:

	Test Method	Glass Cell 38	Glass Cell 25	Glass Cell 20	Glass Cell 10
Physical aspect		Powder			
Color		White			
Average particle size		40 µ	55 µ	60 µ	70 µ
Maximum diameter		125 microns			
Oil absorption	ASTM D1483	310 - 360			
Thermal conductivity W/m.K @ 20 °C		0.02 - 0.12			
Dielectric constant		1.36			
Alkaline	ASTM D3100	< 0.5 meq / g			
Volatile content		< 0.5 % in weight or < 2 % in volume			
Softening point		600 °C			
Bulk density (g/cm ³)		0.21 – 0.23	0.13 - 0.18	0.10 - 0.15	0.05 - 0.10
True density (Air Pycnometer)	ASTM D2840	0.36 – 0.40	0.23 - 0.27	0.18 - 0.22	0.10 - 0.14
Isostatic pressure resistance (bars)	ASTM D3102	280	52	34	17
Internal gaz composition		33% O ₂ and 66 % SO ₂			