



## CenoStar Grade Glass Bubble Microsphere Comparison to 3M Grades

CenoStar Grade	3M Grade	Particle size Range (µm)		True Density (g/m <sup>3</sup> )	Bulk Density (g/m <sup>3</sup> )	Crush Strength (psi)
G-2000	HG2000/ HG3000	> 2	< 120	0.32	0.20	2000
G-4000	HGS4000	> 2	< 100	0.4	0.26	4000
G-6000	HGS5000/ HGS6000/ HGS8000	> 2	< 85	0.46	0.30	6000
G-10000	HGS10000	> 2	< 80	0.60	0.39	10000
G-12000	HGS18000	> 2	< 80	0.60	0.39	12000
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C-25	S22/ K25	> 2	< 125	0.25	0.15	725
C-32	S32	> 2	< 120	0.32	0.20	2000
C-40	S38/ S38HS	> 2	< 100	0.40	0.26	4000
C-46	K46	> 2	< 85	0.46	0.30	6000
C-60	S60/ S60HS	> 2	< 80	0.60	0.39	10000

"G" Series product is specific product for the oil and gas exploration applications (low Density cement slurries and low density oil drilling fluids) which are comparable to 3M HGS Series

"C" Series has a silane coupling agent surface coating which will enhance its' good properties with synthetic resins and other polymers. This series is widely used in the paint and composites markets.

