



GNP Graystar

Specialty Materials



TECHNICAL DATA SHEET

Bubble Alumina

Typical Chemistry

Alumina (Al ₂ O ₃)	98.80 %
Silicon Dioxide (SiO ₂)	0.80 %
Iron Oxide (Fe ₂ O ₃)	0.04 %
Sodium Oxide (Na ₂ O)	0.09 %
Calcium Oxide (CaO)	0.03 %
Magnesium Oxide (MgO)	0.08 %

Physical Characteristics

Crystallography:	Alpha-Alumina
Color:	White
Shape:	Spherical Shaped and Hollow

Available Sizes & Typical Bulk Densities

Size	Bulk Density (g/l)	Bulk Density (lb/ft ³)
0 - 0.5 mm	800 - 1,100	50 - 70
0.5 - 1 mm	650 - 850	40 - 53
0 - 1 mm	700 - 1,050	44 - 66
0 - 2 mm	650 - 1,000	40 - 63

Description:

GNP Graystar's Bubble Alumina is produced by fusing special high purity alumina. The melt is atomized with compressed air which leads to the hollow spheres.

Bubble Alumina is hard but extremely friable with respect to its pressure strength. The melting point is approximately 2100°C. Due to its hollow spheres, it has a low bulk density and extremely low thermal conductivity. Bubble Alumina is chemically inert.

Applications:

Due to the above noted properties, Bubble Alumina is used in lightweight, high temperature refractories to form pores in high-porosity abrasives, and as a media to filtrate aggressive liquids or melts. It can also be used as a bed materials in the firing process of vitrified grinding wheels and other ceramic parts.

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Rev. 02/2020

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