



Many minerals used in manufacturing processes need to be finely ground before they can be utilised in the preparation of the final product. Whitfield and Son Limited offer a wide range of grinding media to enable cost effective reduction of the particle size of the materials:

90% High Density Alumina

A high Alumina 90%+Al₂O₃(Alugrind) is isostatically pressed and sintered at high temperature to give a finished product. Alugrind 90 has a density in excess of 3.57gm/cm³ and is completely gas-tight. Isostatic pressing ensures that the density and hardness of the product is the same from the outside surface to the centre of the media and this ensures extremely low and uniform wear rates. High density alumina media is used to grind material where contamination must be kept to an absolute minimum, but because of the very high efficiency of Alugrind 90+ it is finding increasing use in the production of numerous materials from ceramic raw materials to colours, glazes and technical ceramics.

90% Alumina Mini Media

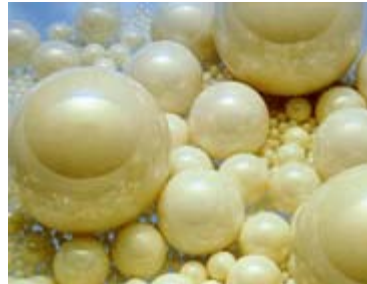
A range of 90%+Al₂O₃ is also available for special applications.

65% Alumina Media

A 65% Al₂O₃ isostatically pressed and sintered grade is also available for less demanding requirements. This has a density in excess of 2.9g/cm³ and again is completely gas-tight. It is suitable to use in areas previously covered by steatite or porcelain media.

Silica Pebbles

Silica Pebbles are the traditional grinding media for all general purpose grinding of bulk materials such as silica and feldspar. Our supplies are selected from the natural



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pebble deposits in Southern England and Northern France.



Glass Beads

Glass Beads of 3 types are available:

GJ-I - General type for normal grinding situations.

GJ-II - Strengthening type which exhibits good hardness and wear resistance.

GJ-III - Wear resisting type with higher density, superior wear resistance even in high intensity grinding.



YTZ Zirconia Grinding Media

YTZ ceramic media features high density and super hardness which enables the user to achieve superior grinding efficiency. The high wear resistance YTZ ceramic media effectively eliminates product contamination and other problems associated with the use of lower quality grinding media, which may be prone to chemical attack or short mill life.

Zirconium Silicate Beads

We have available Zirconium Silicate Beads made by a fusion process giving a fine crystalline structure. This material can be used in the grinding of coatings, inks, dye stuffs, pesticides, cosmetics, titanium dioxide, magnetic materials and numerous other minerals.

Please call us on

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Email whitson@rbhltd.com for further information or to discuss your individual requirements.