

GUYSON CERAMIC BEAD

for use with compressed air blast systems – dry, wet and turbine wheel

GENERAL

Guyson ceramic beads are a high quality zirconia based blast medium with a very slow breakdown rate and as such are ideal for impact finishing operations involving both manual and automated machinery, where consistency of finish is important. Additionally, dust levels generated are considerably lower than with the equivalent glass bead.

The standard product (B grade) is available in a range of different bead sizes and these are ideal for many blast processes such as surface cleaning, deburring, cosmetically enhancing etc. Also available is a higher quality product (Z grade) where checks to roundness, surface defects etc allows the bead to be certified to the demanding standards of aerospace and automotive shot peening applications.

Chemical Composition

ZrO ₂	:	62%
SiO ₂	:	28%
Al ₂ O ₃	:	4.5%
CaO	:	3.5%
Fe ₂ O ₃	:	0.14%
TiO ₂	:	0.34%

Physical Data

Shape	:	Spherical
Colour	:	White
Specific Gravity:	:	3.8
Bulk Density	:	2.3 g/cc
Hardness	:	60 HRc (Vickers 700 HV1)

EINECS reference: See MSDS
CAS No. 1344-28-1: See MSDS

Sizes Available: Nominal Size Range (microns)

B20	:	600 – 850
B30	:	425 – 600
B40	:	250 – 425
B60	:	125 – 250
B120	:	70 – 125
B125	:	0 – 125
B205	:	0 – 70

Pack Size : 25 kg

Sizes Available: Nominal Size Range (microns)

Z210	:	210 - 300
Z300	:	300 – 425
Z425	:	425 – 600

Pack Size : 25 kg

Ceramic bead and shot are non-toxic and non-hazardous products that contain no free silica. No special disposal precautions are required for the products once they have been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal

See Guyson MSDS reference 39 for all other details

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Manual Blast Systems ▪ Semi/Fully Automated Blast System ▪ Robotic Blast Systems
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