



BLAST MEDIA DATA SHEET

GUYSON ZIRBLAST

(all compressed air systems - dry, wet and turbine wheel)

General

Guyson Zirblast and Zirshot are high quality fused ceramic beads manufactured from crystalline zirconia bonded with amorphous silica. Both products have a very slow breakdown rate and as such are ideal for impact finishing operations involving automated machinery, where consistency of finish is important. Additionally, dust levels generated are considerably lower than with the equivalent glass bead.

Whilst both products are chemically identical, quality checks to roundness, surface defects etc allows Zirshot to be certified to the demanding standards of aerospace shot peening applications. Zirblast is designed for all other impact finishing applications and is available at a more economic price.

Being chemically inert and iron-free products, these beads can be used for a wide variety of applications such as cleaning without dimensional change, shot peening, stress relieving, deburring, scale removal etc

Zirshot can be supplied with certification to most aerospace standards should these be required.

Chemical composition

ZrO ₂	:	67%
SiO ₂	:	31%
Al ₂ O ₃	:	2%

Physical data

Shape	:	Spherical
Colour	:	White
Specific gravity	:	3.80
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

See Guyson MSDS reference 39 for all other details

Zirblast and Zirshot 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.