

GENERAL PURPOSE BASALT MICROSPHERES

- opaque black sieve fractions

- Over 20 grades from 90µm – 2.40mm
- High performance sonic sieving process
- 90% within the nominal particle size distribution
- Sieves used calibrated to NPL and NIST standards

General Purpose Beads

Whitehouse Scientific, one of the most widely recognised and respected manufacturers of particle size calibration standards using glass microspheres, has added basalt microspheres to its range

The transparency of standard glass microspheres presents problems for some particle sizing systems and technologies. Being opaque, the new basalt standards provide an alternative and long term solution.

There are over 20 individual narrow distribution grades each with excellent sphericity, ranging in size from 50 microns up to 2 millimetres. The calibration standards are supplied in convenient 100g lots and ideal for use in both lower grade and initial research applications.



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Sieve Fraction (µm)	Weight per Jar (g)	Catalogue Number	Price per pack		
			£	€*	\$*
90 – 106	100	BM0098	45	54	72
106 – 125	100	BM0116	35	42	56
125 – 150	100	BM0138	35	42	56
150 – 180	100	BM0165	35	42	56
180 – 212	100	BM0196	35	42	56
212 – 250	100	BM0231	35	42	56
250 – 300	100	BM0275	30	36	48
355 – 425	100	BM0390	25	30	40
425 – 500	100	BM0463	25	30	40
500 – 600	100	BM0550	25	30	40
600 – 710	100	BM0650	25	30	40
710 – 850	100	BM0780	25	30	40
800 – 1000	100	BM0925	25	30	40
1000 – 1200	100	BM1090	25	30	40
1200 – 1400	100	BM1300	25	30	40
1400 – 1600	100	BM1500	25	30	40
1600 – 1800	100	BM1700	25	30	40
1800 – 2000	100	BM1900	25	30	40
2000 – 2400	100	BM2200	25	30	40

CHEMICAL COMPOSITION:

SiO ₂	43%
Al ₂ O ₃	14%
CaO	13%
Fe ₂ O ₃	14%
MgO	8.5%
Na ₂ O/K ₂ O	3.5%
Others	4%

Data Sheet according to 93/112/EC

PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:

Physical state	Solid
Colour	Black
Odour	None

Safety relevant data:

Softening point	>900°C
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Specific gravity	ca. 2.9 g/cm ³ (20°C)

Solubility in water Not applicable

In the first stage of refinement, broad distribution glass microspheres are very accurately sieved using a variety of sieving processes to produce extremely sharp cuts from over 2mm down to 75 microns. The processes guarantee that a minimum of 90% of the distribution falls within the nominal size range.

The complete particle size distribution of these General Purpose Basalt Microspheres is not traceable to any International standard, only the start and finish points of the distribution. However, should additional classification be required, this can be carried out on request to provide a higher grade certified standard with NIST traceability. Please contact us with your specific requirement and we will endeavour to help you.

* Currency conversions are provided as a guide only and are therefore subject to slight fluctuation