



mbeads
High Index Glass Beads

mbeads™ metaview

microscopic high index glass beads in a range of micron sizes

mirror image

Viz Reflectives manufactures a range of plain clearview and metaview metalised high index glass beads. metaview glass beads offer excellent performance for Industrial and Retro-reflective Technologies.

area of application

High Index metaview glass beads are particularly used in reflective inks, paints, aerosols and coatings. Dependant on particle distribution used metaview beads can achieve high reflective values. Typical end use applications for metaview mbeads™.

- Decoration of apparel
- Reflective Paints for street furniture
- Reflective Inks for sportswear
- Reflective Aerosols for use on masonry
- High Performance Road Markings

manufacturing capabilities

With three vacuum metalisers on site the company has the production capacity of over 600 tonnes per annum of metaview beads. The manufacturing process utilises the latest technology, producing highly reflective metallised beads in a wide range of micron sizes. Quality control is a key element in producing consistant batches and is controlled using ISO 9002. Due to the configuration of the manufacturing plant metaview beads can be manufactured to meet customer's specific requirements.



retro-reflective effect of car headlights on a metaview mbead™



retro-reflective effect of car headlights on a garment printed with Optilux™ ink



it's all in the detail

With the use of Laser Analysers mbead customers can have full test reports on samples giving data on particle distribution and mean sizes. Chemical treatments are available to improve reflection, adhesion and performance for specific products.

mbeads™ metaview specification

Refractive Index		Standard Micron Sizes					Roundness
1.9 - 1.93	2.1 - 2.23	30 - 90µ	30 - 40µ	40 - 50µ	50 - 70µ	70 - 90µ	>95%
Standard Mesh Sizes							
170 - 200	200 - 230	230 - 250	250 - 270	270 - 300	300 - 325		
325 - 350	350 - 375	375 - 400	400 - 425	425 - 450			
Composition		% By Weight				Transparency	
BaO - SiO ₂ - TiO ₂		TiO ₂ 30-33%	BaO 45-55%	SiO ₂ 12-15%	Al >1%	Uncoated 90 - 100%	
Titanium dioxide & Barium Carbonate & Silica							
Specific Gravity		Colour Analysis			Packaging		
4.2		Silver, Light Grey			25 KG Tub		

For further information see the Material Data Safety Sheet.