



ABRASIVE

Glass Beads

Glass Beads deliver controlled abrasive performance for cleaning, finishing, and surface conditioning, combining precision engineering with durability and environmental safety.



Glass Beads are precision-engineered spherical abrasives manufactured from chemically inert soda-lime glass. Produced from high-grade glass cullet that is melted into spherical form and annealed to equalise internal stresses, they resist fracture and maintain consistent performance.

These clear, transparent spheres provide high-quality surface treatment across a wide range of industrial applications without altering the dimensional integrity of the substrate.

Performance

- **Surface Profile:** Produces finishes ranging from fine matte to bright satin, with decorative effects achievable through masking and blasting.
- **Finishing Control:** Finer beads yield smooth, non-glare surfaces; larger beads create deeper textures.
- **Dimensional Stability:** Permits cleaning and deburring of critically toleranced parts without removing base metal.
- **Durability:** Annealed strength allows multiple impacts, making beads ideal for recycling blasting systems.

Features

- **Chemical Inertness:** Safe, non-reactive soda-lime glass composition.
- **Contamination-Free Performance:** No particle embedment, pick-up, or ferrous residue.
- **Versatility:** Effective for cleaning, finishing, peening, deburring, sanitising, descaling, coating removal, polishing, and blending.
- **Finishing Options:** Provides both smooth non-glare and textured finishes depending on bead size.
- **Precision:** Maintains substrate integrity with no dimensional changes.



Major Industries & Applications

Metal Cleaning

Stainless steel, food equipment, medical tools

Aerospace Peening

Engine blades, rotors, turbine parts

Stress Prevention

Corrosion and fatigue resistance

Deburring

Gears, turbocharger, die castings

Surface Blending

Ferrous and non-ferrous parts

Abrasive Properties

Roundness	>80%
Hardness (Moh scale)	5.5 – 6.0
Bulk Density (kg/M ³)	1600
Particle S.G.	2.5
Hue / Tint	Clear
Size Standard	ASTM
SiO ₂ %	>70
CaO + MgO %	>8
Na ₂ O+K ₂ O+Al ₂ O ₃ +F ₂ O ₃ %	<18
Quartz (Free Silica)%	<0.5
Magnetic Paticles %	<0.1

Refractive Index

Normal	>1.5
Runways / Highway signs	>1.9

Available Sizes

Grade	Microns	Inch (.001")
GB #2	600-850	0.23-.033
GB #3	425-600	0.33-.023
GB #4	250-425	.023-.016
GB #5	212-425	.016-.012
GB #6	212-300	.012-.008
GB #7	180-300	.010-.007
GB #8	125-250	.008-.006
GB #9	106-212	.007-.005
GB #10	90-150	.006-.0035
GB #11	53-106	.005-.003
GB #12	45-90	.004-.002
GB #13	<53	.0035-.001