Reflective Glass Beads
IMPROVED SAFETY THROUGH RETROREFLECTION

Road markings are the most efficient means to safely guide traffic and retroreflection plays a crucial role in maintaining visibility for the driving public under less than favorable light and weather conditions.

No glass beads - no retroreflection.

With quality glass beads, pavement markings “light up” and provide the motorist optimum visibility and positive guidance.

The returning light is known as retroreflective light.

The motoring public depends on reflective pavement markings to guide them safely on the world highways. Premium Swarco Glass Beads are an integral part of a superior retroreflection process.
The effect of retroreflection works efficiently under dry conditions. (Fig. 1)

Under rainy conditions retroreflection becomes almost non-existent with conventional glass beads because the resulting water film covers the small beads and tends to deflect the driver’s headlights rather than reflect the light back to the driver. (Fig. 2)

The solution to rainy conditions (Fig. 2) is to use larger beads that protrude above the water film and allow the bead surface to reflect the light back to the driver. Megalux-Beads® can drastically improve retroreflection under rainy conditions due to their larger sizes, superior clarity and unmatched roundness. (Fig. 3)
**REFLEX**

Quality glass beads that provide good, consistent retroreflective values in all conventional road marking materials. Used for inter-mix or drop-on applications and produced to meet all federal, state, county, or customer specifications.

**SWARCOLUX**

High quality beads that provide extraordinary reflectivity values due to improved rounds and smoother bead surfaces.

SWARCOLUX are particularly suitable for demanding performance and warranty specifications and can be applied on all binder systems with impressive results.

**Technical Properties**

**Technical Properties**

<table>
<thead>
<tr>
<th>Reflex</th>
<th>SWARCOLUX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roundness: &gt;70%</td>
<td>Roundness: &gt;80%</td>
</tr>
<tr>
<td>Refractive Index: &gt;1.51</td>
<td>Refractive Index: &gt;1.51</td>
</tr>
<tr>
<td>Specific Gravity: Approx. 2.5</td>
<td>Specific Gravity: Approx. 2.5</td>
</tr>
</tbody>
</table>
Superior, state-of-the-art glass beads that offer unsurpassed performance and longevity due to its extremely smooth surface, high roundness, less than 1% air inclusions, and large sizes.

MEGALUX-BEADS® are optimal reflectors for high performing and durable wet-night road marking systems.

**Technical Properties**

- **Size Range:** 12 - 30 US Mesh
  600 - 1700 Microns
- **Roundness:** >90%
- **Refractive Index:** >1.51
- **Specific Gravity:** Approx. 2.5
SWARCO Glass Beads bring out the best in any binder system, whether flat, profiled, or structured, including:

- Solvent-borne Paints
- Waterborne Paints
- Thermoplastics
- Preformed Thermoplastics
- Epoxies
- MMAs / Cold Plastics
- Polyesters
- Urethanes / Plural Component Systems

Swarco offers a full range of binder specific coatings for more consistent and enhanced pavement marking performance.
KEEPING HIGHWAY SAFETY IN SIGHT

With more than 30 years experience in the road safety industry, the Swarco Group is a trusted partner for all your traffic safety needs.

Swarco Reflex and Swarco Industries are part of a dynamic worldwide organization specializing in highway safety products and solutions.

Our success is closely linked to the quality of our products. SWARCO’s glass beads are subject to a strict quality management system and our qualified and motivated personnel offer competent and friendly customer service including on-site technical support.

Swarco Reflex, Inc.
P.O. Box 1558
900 N. Denton
Mexia, TX  76667
Ph: (254) 562-9879
Fx:  (254) 562-7601
1-877-634-2589

Swarco Industries, Inc.
P.O. Box 89
270 Rutherford Lane
Columbia, TN  38401
Ph: (931) 388-5900
Fx:  (931) 388-4039
1-800-216-8781

http://www.swarco.com

WARRANTY: The following is made in lieu of all warranties, expressed or implied: Seller’s and manufacturer’s only obligation shall be to replace such quantity of the product proven to be defective. Neither seller nor manufacturer shall be liable for any injury, loss, or damage, direct or consequential, arising from the use, or the inability to use the product. Before using, user shall determine the suitability of the product for his intended use, and user assumes all risk and liability, whatsoever, in connection therewith. The foregoing may not be changed except by written agreement signed by an officer of the manufacturer.