

## MICROSPHERE

Code: ME-25



### WHAT THE MICROSPHERE IS?

Spheric transparent component of controlled granulometry, achieving to provide retro-reflectivity to the paint of road marking used in pavement.

Optical phenomenon that allow headlights, return to the sight of motorist, dur microspheres act as million of small mirrors, retro-reflecting the light to the eyes of drivers, lighting road in a continuous way.

This allow road marking paint can be completely visible during night.

Spheres are transparent, clean, colorless and smooth, free of milky spots, burrs or bubbles caused by excess of air.

### FEATURES

- Spheres comply with the specified requirements related to grading, for their type, as detailed in table 1.
- Round and with at least 70% of real spheres.
- These offer high compressive strength, retaining in the mesh of 0.425 mm (No. 40) a minimum of 30 lbs (133 N).
- These don't absorb humidity during its storage, being free of agglomerations and guaranteeing a constant flow in the dispenser equipment.
- These are covered by a material resistant to humidity, which ensure a free flow.
- These offer high resistance to chemical agents.

### PRESENTATION

- Kraft paper sacks, it contains 55.11 lbs.

### SPECIFICATIONS / STANDARDS

**Table 1. Glass spheres grade**

Mesh Designation		Percentage
Standard	Alternating	Mass weighing
0.850	20	100
0.600	30	75-95
0.300	50	15-35
0.150	100	0-5

Grade	ASTM D 1214
Roundness	ASTM D 1155
Compressive strength	ASTM D 1213

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## COMPOSITION

Hazardous Components	OSHA PEL	ACGIH TLV
Hazardous dust	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Breathable hazardous dust	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>

## RECOMMENDATIONS

- Glass microsphere is ready to spread.
- Don't mix with paint.
- Don't leave open the sack.
- Pour the glass microsphere in a uniform way, over the line with fresh paint.
- Yields approximately 10 kg per km.

## PHYSICAL PROPERTIES

Shape	Solid
Color	White
Odor	Colorless
Molecular Weight	126.07
Density (20°C) g/cm <sup>3</sup>	1.65
Bulk density (20°C) kg/m <sup>3</sup>	-900
Solubility (water to 20°C) g/l	102
Participation Coefficient P(n-octagonal/water)	-0.81 (anhydride substance)
Value pH: a 50 g/H <sub>2</sub> O (20°C)	-0.7
Silica Content (%)	65