

Ennis-Flint Reflective Glass Beads

PRODUCT DATA

Product Type: **S100 Standard** (Formerly Lux®)
 Product Code:
 Product Description: TT-B-1325 D Type 1A
 Product Color: Clear
 Specification: Meets Glass Bead Spec for TT-B-1325 D Type 1A
 Effective Date: 05/20/15

Product Description:

S100 glass beads for pavement markings are standard beads for economical applications made from 100% recycled glass.

Recommended Applications:

- Premix applications
- Can be applied with standard road marking equipment

Packaging:

50 lb. bags, 2000 lb. boxes, or super sacks @ 2000 lbs., 2200 lbs., and 2400 lbs.

Storage:

Store at room temperature.
 Store in a dry place.

Very slippery when spilled, pick-up immediately.

This product is primarily engineered for pavement and/or runway markings, and is not intended for use in humans.

Roundness:

80% to 90% true spheres, or based on other customer specification requirements.

U.S. Sieve #	Microns	Type I	
		Min	Max
12	1700	---	---
14	1400	---	---
16	1180	---	---
18	1000	---	---
20	850	100	---
30	600	80	100
40	425	---	---
50	300	18	35
70	212	---	---
80	180	---	---
100	150	0	10
140	106	---	---
200	75	0	2
230	63	---	---

Dangerous Substances:

None. Heavy Metals testing as required. Meets and or exceeds all MAP-21 requirements.

Similar specifications:

TT-B-1325 D Type 1A
 AASHTO M247 Type 1 – High Round (HR)
 FL Type 1 HR
 SC Small Spec
 NC Small Spec

Chemical Composition (by weight)

Silica (SiO ₂)	62-75%
Aluminum Oxide (Al ₂ O ₃)	0-5%
Calcium Oxide (CaO)	6-17%
Magnesium Oxide (MgO)	1-5%
Sodium Oxide (Na ₂ O)	10-20%
Iron Oxide (Fe ₂ O ₃)	<0.8%

Physical Properties

Specific Gravity	2.48-2.52 g/cm ³
Softening Temperature	650°C
Coefficient of Thermal Expansion	90 x 10 ⁻⁷ /°C (30-300°C)
Strength	60,000 to 65,000 psi.
Vicker Hardness	756,250 psi
Refractive Index	1.50 to 1.55 (nD)

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