


APEX GLASS SPHERES


**PREMIUM
GLASS BEADS**
AASHTO M247-81 TYPE I
NET WEIGHT 50LBS(22.68KG)
BATCH NO:


**PREMIUM
GLASS BEADS**
CALIFORNIA TYPE II
NET WEIGHT 50LBS(22.68KG)
BATCH NO:
APEX UNIVERSAL, INC
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Apex marking spheres enhance visibility to improve highway safety. In any adverse conditions, fog, rain or anywhere that requires superior visibility, Apex is clearly your choice.

We manufacture these spheres only for use on California State Highways. Apex marking spheres are a State of California, Department of Transportation approved product. Being a California company, we know the special needs of the California driver and the special visibility requirements to navigate through the most driven highways in the world.

Apex Universal has been a leader in the highway safety market in California for the last 20 years. You probably already know us from our reflective and non-reflective pavement markers. Please contact us and one of our sales professionals will be happy to visit you and discuss all your highway safety needs.

**Gradation:
California Department of Transportation Specifications for Type II**

Sieve Opening	U.S. Standard Sieve	% by Weight Passing
600 μm	# 30	100
250 μm	# 60	40-70
180 μm	# 80	15-35
106 μm	# 140	0-5

AASHTO Designation: M247-81(1996)

Sieve Opening	U.S. Standard Sieve	% by Weight Passing	
		Type I	Type II
850 μm	# 20	100	-
600 μm	# 30	75-95	100
425 μm	# 40	-	90-100
300 μm	# 50	15-35	50-75
180 μm	# 80	-	0-5
150 μm	# 100	0-5	-

Refractive Index:

The beads have a minimum refractive index of 1.5 when tested by the oil immersion method.

Specific Gravity:

Beads shall have a specific gravity between 2.40 and 2.60 at 25 deg. C per ASTM D-153, Method A.

Moisture Content:

Does not exceed 0.01%

Chemical Stability:

Refluxing of a 50g sample of beads in a Soxhlet extraction apparatus for 8 hours with distilled water shall not produce more than a very slight reduction in luster or reflecting power of the beads.

Flow:

Beads shall be free flowing. A 23kg sample of beads, when emptied into a service box screen having sieve openings of 1.18 mm (U.S. Standard Sieve #16) shall pass completely through the screen without shaking or any excessive hand manipulation.

ALL SIEVE SIZES AVAILABLE



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