



GLASS BEADS

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 1.18mm (U.S. Standard Sieve #16) shall pass completely through the screen without shaking or any excessive hand manipulation.

Gradation:

Caltrans Specifications for Type II (8010-004, dated Dec. 22, 2009)

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	0-0.5

Gradation:

AASHTO Designation: M247-13

Sieve Opening	U.S. Standard Sieve	% by Weight Passing	
		Type 1	Type 2
1180 μm	#16	100	100
850 μm	#20	95-100	90-100
600 μm	#30	75-95	50-75
425 μm	#40	-	15-45
300 μm	#50	15-35	0-15
180 μm	#80	-	0-5
150 μm	#100	0-5	-