

971 TRAFFIC MARKING MATERIALS-SPECIFIC PROPERTIES.
(REV 1-25-06) (FA 1-30-06) (7-06)

SUBARTICLE 971-2.2 (of the Supplemental Specifications) is deleted and the following substituted:

971-2.2 Specific Properties: The large (Type 3 or larger) glass spheres used for drop on beads shall have an adhesion coating. Type 1 glass spheres used for drop on beads shall have a dual coating. Beads used in the intermix of materials are not required to be coated.

The following physical requirements apply:

Property	Test Method	Specification
Gradation	ASTM D 1214	AASHTO M 247 & FP
Roundness	ASTM D 1155	Min: 70 % true spheres by weight per sieve size
Refractive Index	Becke Line Method (25+/-5C)	1.5 minimum

Sieve Size	Percent by Mass Passing Designated Sieve (ASTM D 1214)			
	Grading Designation			
	Type 1 (AASHTO)	Type 3 (FP 96)	Type 4 (FP 96)	Type 5 (FP 96)
No. 8				100
No. 10			100	95 – 100
No. 12		100	95 – 100	80 – 95
No. 14		95 – 100	80 – 95	10 – 40
No. 16	<i>100</i>	80 – 95	10 – 40	0 – 5
No. 18		10 – 40	0 – 5	0 – 2
No. 20	100 <i>95 - 100</i>	0 – 5	0 – 2	
No. 25		0 – 2		
No. 30	75 – 95			
No. 40				
No. 50	15 – 35			
No. 80				
NO. 100	0 – 5			

Provide the Engineer Certified test reports from the manufacturer confirming that all glass spheres conform to the requirements of this Section.