
Standard Specification for

Granular Material to Control Pumping Under Concrete Pavement

AASHTO Designation: M 155-87 (2004)



American Association of State Highway and Transportation Officials
444 North Capitol Street N.W., Suite 249
Washington, D.C. 20001

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1. SCOPE

- 1.1. This specification covers material for use under concrete pavement to minimize pumping of the pavement slab.
- 1.2. The values stated in SI units are to be regarded as the standard.

2. GENERAL REQUIREMENTS

- 2.1. Granular material for use as subbase under concrete pavement may be composed of sand, sand-gravel, crushed stone, crushed or granulated slag, or combinations of these materials. The material shall meet the requirements shown in Table 1.

Table 1—General Requirements

Maximum Size	Not more than $\frac{1}{3}$ of the thickness of the subbase
Passing 75- μm (No. 200) Sieve	15 percent maximum
Plasticity Index	6 maximum
Liquid Limit	25 maximum

- 2.2. The material shall be graded suitably to permit compaction of such a density that a minimum increase in densification will occur after the pavement is in service.

3. METHODS OF TESTING

- 3.1. The material shall be sampled and tested in accordance with the following methods of the American Association of State Highway and Transportation Officials:

- *Passing the 75- μm (No. 200) sieve*—T 11
- *Plastic limit and plasticity index*—T 90
- *Liquid limit*—T 89
- *Compaction and density*—T 180 or T 99

Note 1—Materials with a higher percentage passing 75- μm (No. 200) sieve or with a higher plasticity index than six or a higher liquid limit than 25, may be used, provided that a stabilization method found to be locally suitable is used.