

**1106- AGGREGATES FOR GRANULAR BASE**

**SECTION 1106**

**AGGREGATES FOR GRANULAR BASE**

**1106.1 DESCRIPTION**

This specification covers aggregate for granular base for concrete pavements.

**1106.2 REQUIREMENTS**

**a. Composition.** Mix sand, gravel, crushed stone, and/or a suitable binder soil, singly or in combination, to produce uniformity of grading and plasticity, and comply with the following.

**b. Quality<sup>1</sup>.**

- Soundness<sup>2</sup>, minimum (KTMR-21) ..... 0.85
- Wear<sup>3</sup>, maximum (KTMR-25) ..... 50%
- Absorption, maximum (KT-6) ..... 4.0%

<sup>1</sup>Crushed aggregates with less than 10% material retained on the No. 4 sieve (excluding mineral filler supplements) must be produced from a source complying with the official quality requirements of this Section prior to crushing.

<sup>2</sup>The above requirements for soundness do not apply for aggregates having less than 10% material retained on the No. 4 sieve.

<sup>3</sup>The above requirements for wear do not apply to aggregates having less than 10% material retained on the No. 8 sieve.

Apply the specified maximum absorption to both the fraction retained on the No. 4 sieve and the fraction passing the No. 4 sieve. Screenings produced concurrently with products approved under KT-6, Procedure I, will be accepted without tests for absorption.

**c. Product Control.**

(1) Size and Plasticity Requirements:

<b>TABLE 1106-1: GRADATION OF AGGREGATES FOR GRANULAR BASE (PERCENT RETAINED)</b>						
<b>Sieve size</b>	<b>1 ½"</b>	<b>¾"</b>	<b>No. 4</b>	<b>No. 8</b>	<b>No. 40</b>	<b>No. 200</b>
Single point	0	0-15	10-65	25-70	50-90	85-95

Plasticity Index.

- Mixes containing more than 50% Crushed Limestone ..... 1-8
- Other Aggregate Combinations ..... 3-8
- Liquid Limit, maximum ..... 25

(2) Pulverization.

(a) Binder Soil. Pulverize binder soil that occurs in natural deposits and not naturally combined with coarse material that complies with **TABLE 1106-2**:

<b>TABLE 1106-2: GRADATION OF BINDER SOIL</b>			
<b>Sieve Size</b>	<b>¾"</b>	<b>No. 4</b>	<b>No. 8</b>
Percent Retained	0	0-25	0-50

Determine pulverization of binder soil in moist or natural conditions at the latest possible point before incorporation into the total combined material.

(b) Natural Mixtures. When binder and coarse material occur naturally combined, pulverize the combination so that at least 25% of the total passing the No 40 sieve by washing passes the No. 40 sieve by dry screening.

(3) Deleterious Substances. Provide aggregates that are free from grass, weeds, roots, sticks, and other undesirable foreign matter.

## 1106- AGGREGATES FOR GRANULAR BASE

**d. Stockpiling.** Stockpile and handle aggregates in such a manner to prevent detrimental degradation and segregation, the incorporation of appreciable amounts of foreign material, and the intermingling of stockpiled materials.

### 1106.3 TEST METHODS

Test aggregates according to the applicable provisions of **SECTION 1115**. Test for absorption as follows:

- Crushed Stone. .... Test Method KT-6, Procedure. I
- Screenings ..... Test Method KT-6, Procedure. II
- Sand-Gravel ..... Test Method KT-6, Procedure. I & II

### 1106.4 PREQUALIFICATION

Prequalify aggregate sources according to **subsection 1101.4**.

### 1106.5 BASIS OF ACCEPTANCE

Aggregates covered by this subsection are accepted based on the procedures described in **subsection 1101.5**.