

**1113 - AGGREGATES FOR SHOULDER CONSTRUCTION**

**SECTION 1113**

**AGGREGATES FOR SHOULDER CONSTRUCTION**

**1113.1 DESCRIPTION**

This specification covers types of aggregates for shoulder construction.

**1113.2 REQUIREMENTS**

**a. Composition.**

(1) Type AS-1 is a mixture of aggregate and binder with at least 85% the material produced by the mechanical crushing of limestone, dolomite or sandstone.

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

- Soundness<sup>2</sup>, minimum (KTMR-21) .....0.85
- Wear<sup>3</sup>, maximum (AASHTO T 96) .....50%
- Specific Gravity<sup>4</sup> (dry), minimum (KT-6 Procedure I) .....2.20

<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.

<sup>4</sup>Apply the specific gravity requirement to individual materials and to any combination of materials required to meet the grading and plasticity requirements.

**c. Product Control.**

(1) Gradation and Plasticity. Provide aggregate that complies with **TABLE 1113-1**.

<b>TABLE 1113-1: GRADING AND PLASTICITY REQUIREMENTS FOR AGGREGATES FOR SHOULDER CONSTRUCTION</b>											
Type	Percent Retained - Square Mesh Sieves								P.I.	L.L. <sup>3</sup> (Max)	Ratio <sup>4</sup> (Max)
	2"	1½"	¾"	3/8"	No. 4	No. 8	No. 40	No. 200			
AS-1	0	0-5	5-30		35-60	45-70	60-84	80-92	1-8 <sup>1</sup> 4-8 <sup>2</sup>	30	3/4

<sup>1</sup>Crushed Limestone or Dolomite

<sup>2</sup>Crushed Sandstone

<sup>3</sup>Liquid Limit

<sup>4</sup>Ratio of percent passing the No. 200 sieve to the percent passing the No. 40 sieve.

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

**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.

**1113.3 TEST METHODS**

Test aggregates according to the applicable provisions of **SECTION 1115**.

**1113.4 PREQUALIFICATION**

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

**1113.5 BASIS OF ACCEPTANCE**

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