

**1112 - AGGREGATES FOR SURFACING OR SUBGRADE MODIFICATION  
FOR COUNTY SECONDARY ROADS**

**SECTION 1112**

**AGGREGATES FOR SURFACING OR SUBGRADE MODIFICATION  
FOR COUNTY SECONDARY ROADS**

**1112.1 DESCRIPTION**

This specification covers types of aggregates used for surfacing or subgrade modification for county secondary roads as shown in the Contract Documents.

**1112.2 REQUIREMENTS**

**a. Composition.** Provide one of the types of aggregate for surfacing or subgrade modification for secondary roads as shown in **TABLE 1112-1 and 1112-2.**

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

- Soundness<sup>2</sup>, minimum (KTMR-21) ..... 0.85
- Wear<sup>3</sup>, maximum (KTMR-25) ..... 55%

<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.

**c. Product Control.**

(1) Size Requirements. Provide aggregate that complies with **TABLE 1112-1.** Determine the gradation factor in accordance with the procedures listed in Part V, Section 5.17.07.

<b>TABLE 1112-1: GRADATION REQUIREMENTS</b>										
<b>Type</b>	<b>Material</b>	<b>Percent retained On standard square mesh sieves*</b>							<b>Gradation Factor</b>	
		<b>2"</b>	<b>1 1/2"</b>	<b>1"</b>	<b>3/4"</b>	<b>3/8"</b>	<b>No. 4</b>	<b>No. 8</b>		<b>No. 30</b>
SS-3	Crushed Stone		0	0-15		45-85			90-100	
SS-5	Crushed Stone	0	0-5	0-30		45-90			90-100	
SS-7	Sand-gravel			0	0-5	0-20				4.00 - 5.00**
SS-8	Sand-gravel			0	0-5	0-30				3.75+
SS-9	Sand-gravel			0		0-20				3.50+
SS-10	Sand-gravel	0	0-5			0-30				3.25+
SS-14	Limestone gravel		0							

\*After removal of all deleterious substances

\*\*For grading factors less than 4.00 but greater than 3.75, provide additional materials as a penalty at a rate of 1.5% for each 0.05 less than 4.00 grading factors. Use a maximum lot size of 500 cubic yards or tons to determine penalty. Average all tests within the lot to determine penalty.

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2. (2) Deleterious Substances. Do not exceed the values for each respective type as shown in **TABLE 1112-**

<b>TABLE 1112-2: DELETERIOUS SUBSTANCES</b>						
<b>Type</b>	<b>Material</b>	<b>Passing No. 200 Mesh sieve</b>		<b>Sticks (wet)</b>	<b>Clay Lumps &amp; Friable Particles</b>	<b>Combination<sup>3</sup></b>
		<b>Note 1</b>	<b>Note 2</b>			
SS-3	Crushed Stone	8.0	15.0	2.0	5.0	5.0
SS-5	Crushed Stone	8.0	15.0	2.0	5.0	5.0
SS-7	Sand-gravel	3.0	10.0	2.0	5.0	5.0
SS-8	Sand-gravel	8.0	15.0	2.0	4.0	
SS-9	Sand-gravel	10.0	15.0	2.0	3.0	
SS-10	Sand-gravel	10.0	15.0	2.0	3.0	
SS-14	Limestone gravel	7.0	30.0			

<sup>1</sup>Without penalty.

<sup>2</sup>Allowable wash penalty. The total combination of clay lumps and friable particles and material passing the No. 200 sieve can equal the value in this column (2) provided the contractor furnishes an additional 1.5% material for each 1% that the total combination of the two is over the sum of the two individual limits (1) + (3).

<sup>3</sup>Of any deleterious substances except material passing No. 200 (2).

**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.

**1112.3 TEST METHODS**

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

**1112.4 PREQUALIFICATION**

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

**1112.5 BASIS OF ACCEPTANCE**

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