

**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 (AASHTO T 96) ..... 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 5.10.5-Fineness Modulus of Aggregates (Gradation Factor).

<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 ½"</b>	<b>1"</b>	<b>¾"</b>	<b>3/8"</b>	<b>No. 4</b>	<b>No. 8</b>	<b>No. 30</b>		<b>No. 200</b>
SS-3	Crushed Stone		0	0-15		45-85			90-100	92-100	
SS-5	Crushed Stone	0	0-5	0-30		45-90			90-100	92-100	
SS-7	Sand-gravel			0	0-5	0-20				97-100	4.00 - 5.00**
SS-8	Sand-gravel			0	0-5	0-30				92-100	3.75+
SS-9	Sand-gravel			0		0-20				90-100	3.50+
SS-10	Sand-gravel	0	0-5			0-30				90-100	3.25+
SS-14	Limestone gravel		0							93-100	

\*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.

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

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>Sticks (wet)</b>	<b>Clay Lumps &amp; Friable Particles</b>	<b>Combination<sup>1</sup></b>
SS-3	Crushed Stone	2.0	5.0	5.0
SS-5	Crushed Stone	2.0	5.0	5.0
SS-7	Sand-gravel	2.0	5.0	5.0
SS-8	Sand-gravel	2.0	4.0	
SS-9	Sand-gravel	2.0	3.0	
SS-10	Sand-gravel	2.0	3.0	
SS-14	Limestone gravel			

<sup>1</sup>Of any deleterious substances.

**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.**