



# Florida Department of Transportation

RICK SCOTT  
GOVERNOR

605 Suwannee Street  
Tallahassee, FL 32399-0450

ANANTH PRASAD, P.E.  
SECRETARY

December 19, 2013

Chad Thompson  
Programs Operations Engineer  
Federal Highway Administration  
545 John Knox Road, Suite 200  
Tallahassee, Florida 32303

Re: State Specifications and Estimates Office  
Section **919**  
Proposed Specification: **9190000 Ground Tire Rubber for Use in Asphalt Rubber Binder.**

Dear Mr. Thompson:

We are submitting, for your approval, two copies of the above referenced Supplemental Specification.

These changes were proposed by Greg Sholar of the State Materials Office (SMO) to clarify the gradation requirements and to update a referenced industry standard.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via email to SP965DS or daniel.scheer@dot.state.fl.us.

If you have any questions relating to this specification change, please call me at 414-4130.

Sincerely,

Signature on file

Daniel Scheer, P.E.  
State Specifications Engineer

DS/dt

Attachment

cc: Florida Transportation Builders' Assoc.  
State Construction Engineer

**GROUND TIRE RUBBER FOR USE IN ASPHALT RUBBER BINDER.  
(REV 10-25-13)**

SECTION 919 is deleted and the following substituted:

**SECTION 919  
GROUND TIRE RUBBER  
FOR USE IN ASPHALT RUBBER BINDER**

**919-1 Description.**

This Section governs ground tire rubber for use in asphalt rubber binders for use in a variety of paving applications.

**919-2 General Requirements.**

The ground tire rubber shall be produced from tires and shall be sufficiently dry so as to be free flowing and to prevent foaming when mixed with asphalt cement. The rubber shall be substantially free from contaminants including fabric, metal, mineral, and other non-rubber substances. Up to 4% (by weight of rubber) of talc or other inert dusting agent, may be added to prevent sticking and caking of the particles.

The ground tire rubber used shall be one of the products listed on the Department's Qualified Products List (QPL). Manufacturers seeking evaluation of their product shall submit an application in accordance with Section 6.

**919-3 Physical Requirements.**

The physical properties of the ground tire rubber shall be determined in accordance with FM 5-559, and shall meet the following requirements:

Specific Gravity .....	1.06 to 1.20
Moisture Content .....	Maximum 0.75%
Metal Contaminants .....	Maximum 0.01%
Gradation.....	<i>Minimum</i> 98% Passing the No. 30 Sieve

**919-4 Chemical Requirements.**

The chemical composition of the ground tire rubber shall be determined in accordance with ASTM D297-~~93~~-13 and shall meet the following requirements:

Acetone Extract.....	Maximum 25%
Rubber Hydrocarbon Content .....	40 to 60%
Ash Content .....	Maximum 8%
Carbon Black Content.....	20 to 40%
Natural Rubber.....	16 to 45%

**919-5 Packaging and Identification Requirements.**

The ground tire rubber shall be supplied in moisture resistant packaging such as either disposable bags or other appropriate bulk containers. Each container or bag of ground tire rubber shall be labeled with the manufacturer's designation for the rubber and the specific type, maximum nominal size, weight and manufacturer's batch or LOT designation.

9190000

All Jobs

**919-6 Certification Requirements.**

The Contractor shall provide the Engineer a certification conforming to the requirements of Section 6 from the manufacturer, confirming that the ground tire rubber meets the requirements of this Section.

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