

ORIGINATION FORM

THE INFORMATION BELOW IS TO BE PROVIDED BY THE ORIGINATOR (The person who receives or originates the issue and needs to forward the issue for action.)

Specification: 9190300
Subject: Ground Tire Rubber for use in Asphalt Rubber Binder
Origination date: 4/30/09

Originator: Gale Page
Office/Phone:

Problem statement: The actual specific gravity of samples tested by our office seemed to slowly creep up over the years. And in discussion with a supplier 2 years ago during the requalification of his product he indicated that whole tire recycling as well as changes in compounding of materials for tire manufacture will result in the specific gravity moving up and recommended that we use the FHWA 1992 recommended spec range of 1.10-1.20. Which we did.

Proposed solution: The recommended spec change currently proposed of 1.06-1.22 is based on a review of FDOT historical data from LIMS supplemented with data from suppliers. The recommended spec range will allow the suppliers who utilize tire buffings (from recapping operations) in their product resulting in lower specific gravity, as well whole tire recyclers and also reflect changes in tire compounding resulting in higher specific gravity.

Information source:

Recommended Usage Note:

Estimated fiscal impact, if implemented:

Implementation of these changes, if and when approved, will begin with the January 2010 letting.



Florida Department of Transportation

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M E M O R A N D U M

DATE: May 14, 2009

TO: Specification Review Distribution List

FROM: Rudy Powell, Jr., P.E., State Specifications Engineer

SUBJECT: Proposed Specification: 9190300, Ground Tire Rubber for use in Asphalt Rubber Binder

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change was proposed by Gale Page to change the specific gravity of ground tire rubber to permit the use of tire buffing from recapping operations resulting in a lower specific gravity, and to reflect changes in tire compounding resulting in a higher specific gravity.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at ST986RP or rudy.powell@dot.state.fl.us. Comments received after June 14, 2009 may not be considered. Your input is encouraged.

RP/dr
Attachment

**GROUND TIRE RUBBER FOR USE IN ASPHALT RUBBER BINDER.
(REV 4-30-09)**

ARTICLE 919-3 (of the Supplemental Specifications) is deleted and the following substituted:

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 ~~1.10~~ *1.06* to ~~1.20~~ *1.22*

Moisture ContentMaximum 0.75%

Metal ContaminantsMaximum 0.01%

Gradation - The gradation shall meet the limits shown in Table 919-1 for the type of rubber specified.

Table 919-1 Gradations of Ground Tire Rubber			
Sieve Size % Passing	Type A	Type B	Type C
No. 16	---	---	100
No. 30	---	100	70-100
No. 50	100	40-60	20-40
No. 100	50-80	---	---