



Florida Department of Transportation

CHARLIE CRIST
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

STEPHANIE KOPELOUSOS
SECRETARY

February 25, 2009

Monica Gourdine
Program Operations Engineer
Federal Highway Administration
545 John Knox Road, Suite 200
Tallahassee, Florida 32303

Re: Office of Design, Specifications
Section 901
Proposed Specification: 9010102 - Coarse Aggregate - Deleterious Substances

Dear Ms. Gourdine:

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

These changes were proposed by Tom Malerk, Director, Office of Materials to delete reference to specific minerals. We are currently using this as a Special Provision.

Please review and transmit your comments, if any, within four weeks. Comments should be sent via Email to ST986RP or rudy.powell@dot.state.fl.us.

If you have any questions relating to this specification change, please call Rudy Powell, State Specifications Engineer at 414-4110.

Sincerely,

Signature on file

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

RP/sh

Attachment

cc: Gregory Jones, Chief Civil Litigation
Florida Transportation Builders' Assoc.
State Construction Engineer

COARSE AGGREGATE - DELETERIOUS SUBSTANCES.**(REV 2-19-09)-(7-09)**

SUBARTICLE 901-1.2 (of the Supplemental Specifications) is deleted and the following substituted:

901-1.2 Deleterious Substances: All coarse aggregates shall be reasonably free of clay lumps, soft and friable particles, salt, alkali, organic matter, adherent coatings, and other substances not defined which may possess undesirable characteristics. The weight of deleterious substances shall not exceed the following percentages:

Coal and lignite (AASHTO T 113).....	1.00
Soft and friable particles (AASHTO T 112).....	2.00*
Clay lumps (AASHTO T 112).....	2.00*
Plant root matter (visual inspection in AASHTO T 27).....	0.005****
Wood and wood matter (visual inspection in AASHTO T 27)	0.005****
Cinders and clinkers.....	0.50
Free shell.....	1.00**
Total Material passing the No. 200 sieve (FM 1-T 011) At Non-Granitic Source	1.75
<i>At Source with Los Angeles Abrasion less than or equal to 30</i>	<i>2.50</i>
<i>At Source with Los Angeles Abrasion greater than 30</i>	<i>1.75</i>
At Granitic Source	2.50
At Point of Use.....	3.75
Fine-Grained Organic Matter (AASHTO 194).....	0.03
Chert (less than 2.40 specific gravity SSD) (AASHTO T-113).....	3.00***

*The maximum percent by weight of soft and friable particles and clay lumps together shall not exceed 3.00.

**Aggregates to be used in asphalt concrete may contain up to 5% free shell. Free shell is defined as that portion of the coarse aggregate retained on the No. 4 sieve consisting of loose, whole, or broken shell, or the external skeletal remains of other marine life, having a ratio of the maximum length of the particle to the shell wall thickness exceeding five to one. Coral, molds, or casts of other shells, and crushed clam and oyster shell indigenous to the formation will not be considered as free shell.

***This limitation applies only to coarse aggregates in which chert appears as an impurity. It is not applicable to aggregates which are predominantly chert.

****Plant root matter, and wood and wood matter shall be considered deleterious when any piece exceeds two inches in length or 1/2 inch in width.

COARSE AGGREGATE - DELETERIOUS SUBSTANCES.
(REV 2-19-09)

SUBARTICLE 901-1.2 (of the Supplemental Specifications) is deleted and the following substituted:

901-1.2 Deleterious Substances: All coarse aggregates shall be reasonably free of clay lumps, soft and friable particles, salt, alkali, organic matter, adherent coatings, and other substances not defined which may possess undesirable characteristics. The weight of deleterious substances shall not exceed the following percentages:

Coal and lignite (AASHTO T 113).....	1.00
Soft and friable particles (AASHTO T 112).....	2.00*
Clay lumps (AASHTO T 112).....	2.00*
Plant root matter (visual inspection in AASHTO T 27).....	0.005****
Wood and wood matter (visual inspection in AASHTO T 27)	0.005****
Cinders and clinkers.....	0.50
Free shell.....	1.00**
Total Material passing the No. 200 sieve (FM 1-T 011) At Source with Los Angeles Abrasion less than or equal to 30	2.50
At Source with Los Angeles Abrasion greater than 30.....	1.75
At Point of Use.....	3.75
Fine-Grained Organic Matter (AASHTO 194).....	0.03
Chert (less than 2.40 specific gravity SSD) (AASHTO T-113).....	3.00***

*The maximum percent by weight of soft and friable particles and clay lumps together shall not exceed 3.00.

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