



**MARYLAND DEPARTMENT
OF TRANSPORTATION**

**STATE HIGHWAY
ADMINISTRATION**

**Office of Materials Technology
Aggregate Bulletin
Test Data**

**Soils and Aggregate Technology Division
7450 Traffic Drive
Hanover, Maryland 21076**

Aggregate Bulletin Contacts

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<http://www.roads.maryland.gov/OMT/AggBlt.pdf>

Toll Free: 866-926-8501

Maryland State Highway Administration

Aggregate Bulletin

1. Introduction

This bulletin contains the qualified list of aggregate producers with the physical test data. The bulletin will be updated on a quarterly basis. The last day of January, April, July and October of each year will be the publishing date. Published bulletin data will be valid for one year. For instance, if a test is required to be performed each year, for test data published in the 1st quarter, new test data will be due by the beginning of the 1st quarter of the next year. We encourage producers to keep track of their records, including due dates and submit their requests for aggregate testing on time. Producers are responsible for informing the Soils and Aggregate Technology Division (SATD) of any changes to producer information, such as producer name, quarry name, subsidiary producer's name, contact information, qualified use of aggregate.

The data listed in the aggregate bulletin are considered to be representative of material supplied by a particular source of aggregate. The materials contained within this document are not meant to represent all aggregate materials a particular quarry can produce or supply. It is emphasized that the listed data must not be interpreted in absolute terms. The information is provided as a guide for the expected quality of the material furnished by a listed source.

2. Process for Listing as a Qualified Aggregate Source in MDOT SHA Aggregate Bulletin

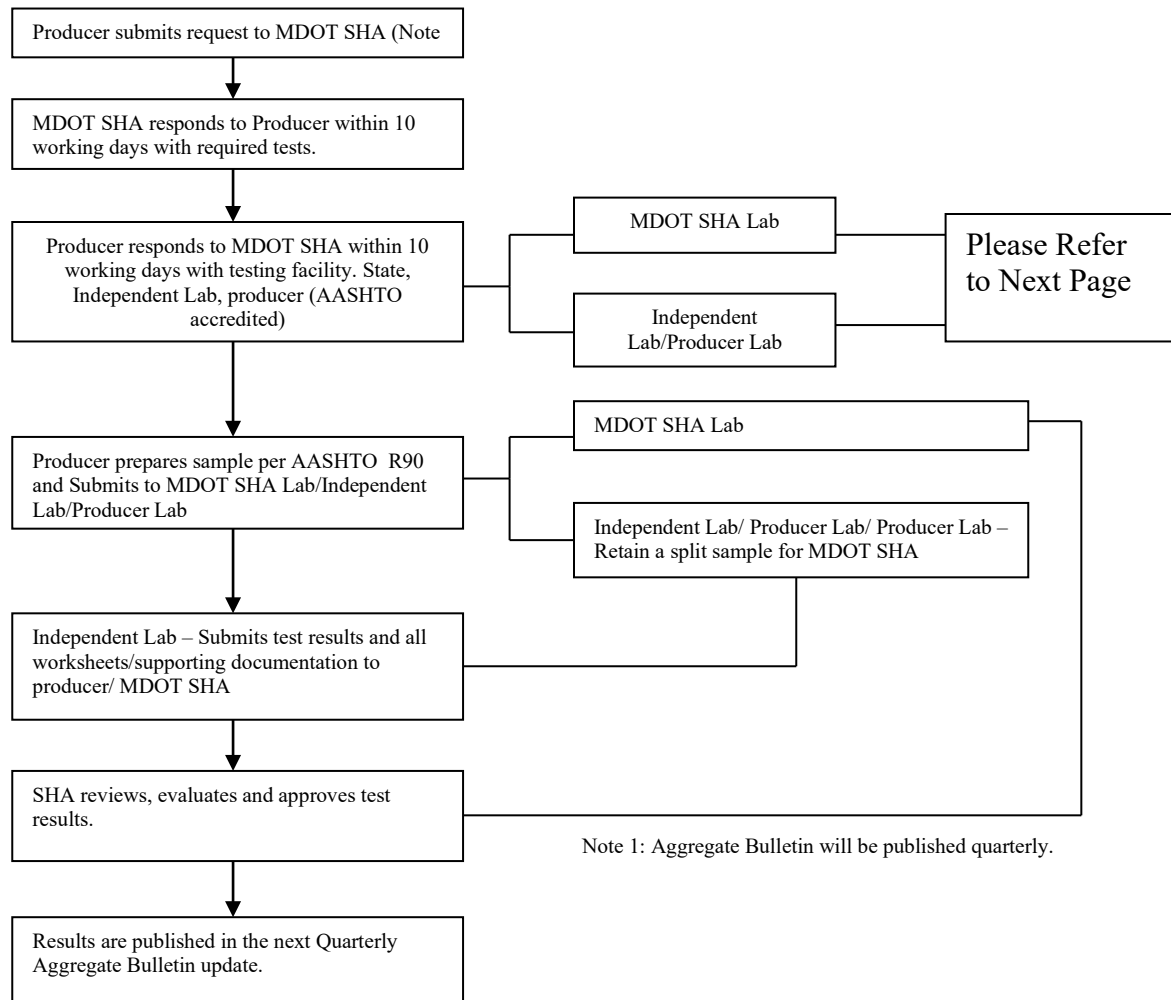
I. Written Request

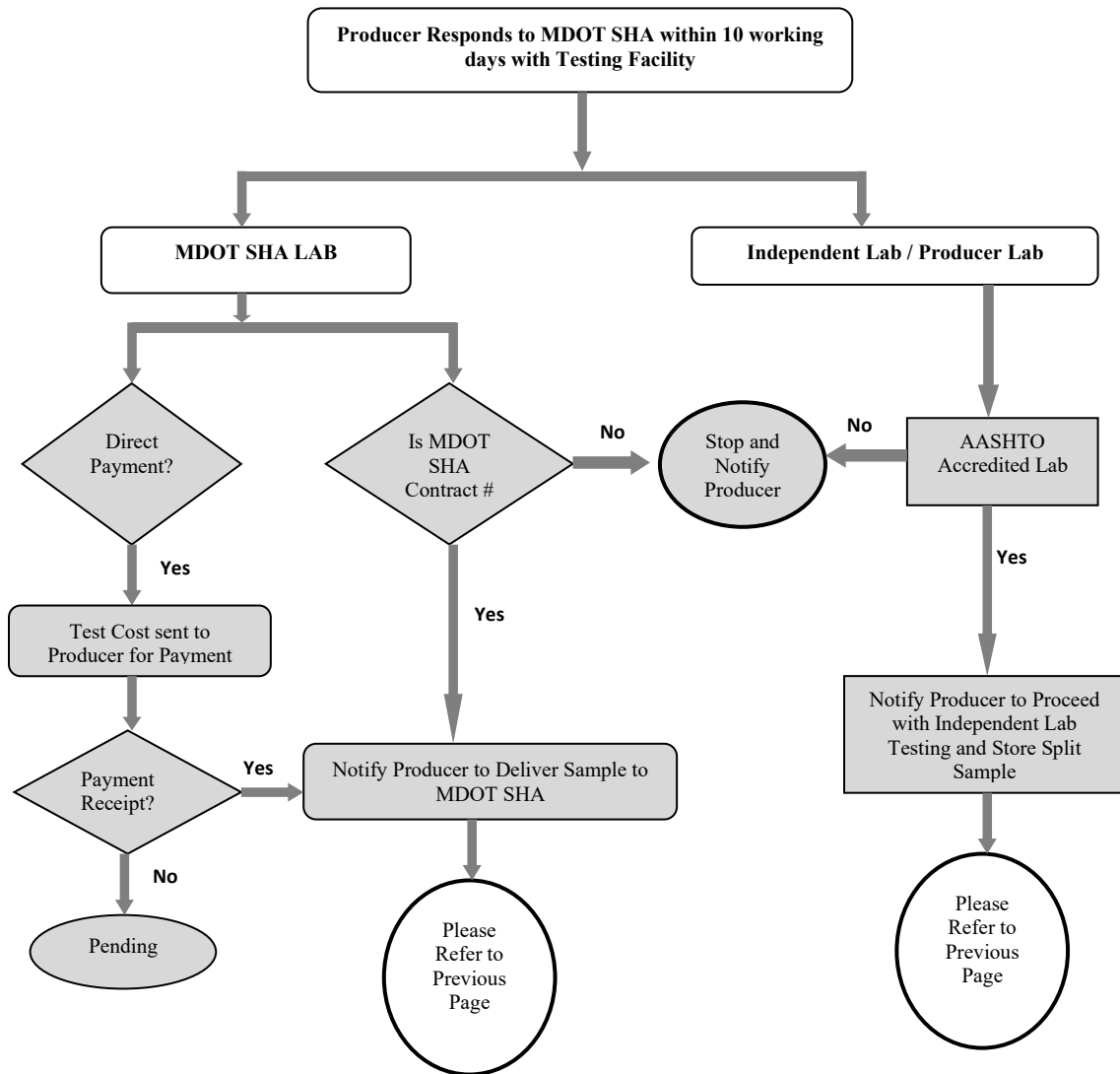
The aggregate producer shall submit a written request to:

Dr. Intikhab Haider, Division Chief
Soils and Aggregate Technology
Maryland State Highway Administration
7450 Traffic Drive
Hanover, MD 21076
IHaider2@mdot.maryland.gov

- A. The SATD requires the producers to submit their written requests before the quarterly aggregate bulletin update. Please refer to the flow chart in Section II for “MDOT SHA Annual Quality Testing Process.” If samples are tested at MDOT SHA lab, we are requesting the producers to deliver aggregate samples to the MDOT SHA laboratory 45 days prior to the next publishing date of the aggregate bulletin in order to publish the test data on time.
- B. Please refer to Appendix A for “Aggregate Quality Test Request” Form. Producers shall complete and submit this form for each material (i.e. No. 57, Concrete Sand, Mortar Sand, etc.) for each quarry.
- C. Safety Data Sheet (SDS): All requests must be accompanied by a Safety Data Sheet with **specific quarry location** with the effective date. **No aggregate will be accepted prior to receipt of the SDS.**

II. MDOT SHA Annual Quality Testing Process





3. Aggregate Tests, Test Frequency and Sample Quantity Requirements

Aggregate Category	Use	Required Tests	Specifications	Test Frequency ^[1]	Material Quantity/Type
Coarse	General Use (HMA Base, GAB, Backfill, etc.)	Specific Gravity & Absorption	AASHTO T-85	1 year	3 bags of No. 57 (at most 35 lbs. per bag)
		Soundness	AASHTO T-104	3 years	
		Los Angeles Abrasion (LA)	AASHTO T-96	2 years	
	PCC	In addition to tests for General Use			
		Alkali-Silica Reaction (ASR)	ASTM C1260	3 years	
	HMA Surface	In addition to tests for General Use			1 bag of 35 lbs. material passing ½” sieve and retained on 3/8” sieve
		Dynamic Friction Test	MSMT 215 & 216 ^[2]	2 years	
	High Friction Materials	In addition to tests for General Use and HMA Surface			As required per Independent Lab
		Petrography for non-carbonate aggregate	TBD	2 years	
		Acid Insoluble Residue (AIR) for carbonate aggregate	TBD	2 years	
Fine	PCC (Concrete Sand)	Specific Gravity and Absorption	AASHTO T-84	1 year	2 bags (at most 35 lbs. per bag)
		Soundness	AASHTO T-104	3 years	
		Alkali-Silica Reactivity (ASR)	ASTM C1260	3 years	
	Mortar Sand and No. 10 Dust	Specific Gravity and Absorption	AASHTO T-84	1 year	2 bags (at most 35 lbs. per bag)
		Soundness	AASHTO T-104	3 years	
Note: [1] Except for new quarry requesting first time [2] Dynamic friction testing will be performed by MDOT SHA lab only.					

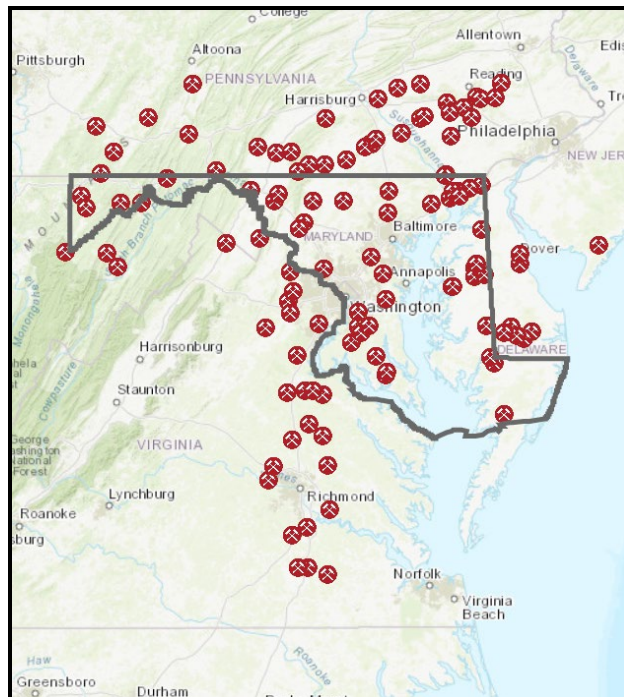
- A. Please note that, for quality assurance purposes, SATD has the right to request aggregate tests to be performed more frequently (i.e., Quality Assurance (QA) Testing) than the testing frequency specified above.
- B. If aggregate samples are tested at the MDOT SHA laboratory, upon the receipt of payment or confirmation of valid contract charge number, the SATD will send a notice to the producer for sampling. Also, SATD will provide "Aggregate Test for Quality," Form 12, Appendix B, to producers for logging each sample for each quarry. The producers are required to complete this form and submit back to the MDOT SHA lab along with samples at the address mentioned above. The sampling shall be in conformity with AASHTO R90.

- C. All information provided by a Producer, Fabricator or Supplier will be kept confidential by SHA and OMT. An exception could occur when the Producer, Fabricator or Supplier makes it publicly available or when agreed upon with SHA and OMT. If the need arises for the release of confidential information by either law or contractual requirements, the Producer, Fabricator or Supplier would be informed of the release of information unless prohibited by law. This confidentiality includes information obtained from sources other than the Producer, Fabricator or Supplier (e.g., complainant, regulators).
- D. Samples submitted to SATD, have to be labeled properly with the following information.

Example

- | | |
|------------------------|--|
| • Organization's Name | Stone Materials |
| • Quarry Name | Hanover Quarry |
| • Contract/ Charge No. | AA123B21 |
| • Aggregate Size | #57, #67, GAB, Concrete Sand...etc. |
| • Date Sampled | 01/01/2022 |
| • Test Purpose | GAB-QA, Aggregate Bulletin...etc. |

Map of Quarry Locations



Appendix A

Aggregate Quality Test Request Form

**Office of Materials Technology
Soils and Aggregate Technology Division
Aggregate Quality Test Request Form
Aggregate Producer's Data Sheet
Date Submitted: _____**

Organization's Name (Parent Aggregate Producer): _____

Office / Facility's Name (Subsidiary Aggregate Producer): *Same as above* _____ *or* _____

Supervising Office's Mailing Address:

Street or P.O. Box: _____

Town / City: _____

State: _____ Zip: _____

E-Mail Address: _____

Phone No(s): _____

Fax No.: _____

Quarry Name's (If Applicable): _____

Street or P.O. Box: _____

Town / City: _____ State: _____ Zip: _____

Entitled Point of Contact: _____

Title / Position: _____

E-Mail Address: _____

Phone No(s): _____

Fax No.: _____

SDS Provided: Yes _____ No _____

Testing Charges: Bill Direct (Yes or No) _____ If No,

MDOT SHA Contract #/Charge #: _____

MDOT SHA Project # (if available): _____

Please provide the following information if applicable:

Testing Facility: MDOT SHA Lab _____ Independent Lab _____ If yes, Lab Name _____

Aggregate Category (ies) for Testing: Coarse _____ Fine _____ Other _____

Aggregate Type (s) for Testing: #57 _____ Concrete Sand _____ Mortar Sand _____
#10 Dust _____ Other _____

Aggregate Use(s): HMA Surface _____ HMA Base _____ PCC _____ GAB _____
Other _____ General _____

Note: Shaded areas will be published in the Aggregate Bulletin.

Appendix B

Aggregate Test for Quality (Form 12)

Testing Completed – Reporting Results.

Upon request, the producer will be notified of the preliminary test results once the testing is completed. Subsequently, the test results will be entered into SATD's aggregate database for the next quarterly Aggregate Bulletin update.

S.H.A. 73.0-12
10/10/2018STATE OF MARYLAND
STATE HIGHWAY ADMINISTRATION
OFFICE OF MATERIALS TECHNOLOGY

AGGREGATE TEST REPORT

Date Sampled _____ Date of Production _____ Date Delivered to LAB _____ Log No. _____

Contract No. _____ Charge No. _____ ☐ MSDSType of Construction _____ Item No. _____
(Description of Exact Use of Material)

Type of Material _____ Quantity Represented _____ Size of Sample _____

Type of Sample: ☐ Quality ☐ Job Control ☐ Other _____
(Experimental, Resample, Re-Stock, Etc.)Produced By _____
(Full Name and Address)Source of Supply _____
(Full Name and Address)Sample Taken From _____ ☐ Source ☐ Source of Supply ☐ Job SiteSample By (Full Name) _____ Witnessed By _____
Federal, County, Municipal Representative's Name

Remarks _____

TEST RESULTS

☐ Gradation:

	3 1/2	3	2 1/2	2	1 1/2	1 1/4	1 1/2	1	3/4	5/8	3/4	3/8	#4	#8
Prod. <input type="checkbox"/>														
Field <input type="checkbox"/>														
Lab.														

	5/8	3/4	3/8	#4	#8	#10	#16	#20	#30	#40	#60	#80	#100	#200
Prod. <input type="checkbox"/>														
Field <input type="checkbox"/>														
Lab.														

Test:

<input type="checkbox"/> Los Angeles Abrasion, % Loss		<input type="checkbox"/> Absorption, %		<input type="checkbox"/> Petro	
<input type="checkbox"/> Sodium Sulfate, % Loss		<input type="checkbox"/> Washing over #200, % Loss		<input type="checkbox"/> Flat and Elongated, %	
<input type="checkbox"/> Unit Wt. Loose (lbs/ft ³)		<input type="checkbox"/> ASR		<input type="checkbox"/> Acid Insoluble Residue(AIR), %	
<input type="checkbox"/> Unit Wt. Rodded (lbs/ft ³)		<input type="checkbox"/> BPN		<input type="checkbox"/> Color	
<input type="checkbox"/> Specific Gravity		<input type="checkbox"/> DFV		<input type="checkbox"/> Micro Deval, % Loss	
<input type="checkbox"/> pH		<input type="checkbox"/> Other		<input type="checkbox"/> CTM	

The material represented – does _____ / does not _____ - meet the MDSHA's Standard Specifications for Construction and Materials, Table 901 B, Aggregate Physical Property Requirements.

Remarks: _____

Appendix C - Procedures of Quality Aggregate Testing by Independent Laboratories

Submittal Requirements to Independent Laboratory

The submission package by each producer shall contain the following:

- A. Aggregate Quality Test Request Form (Appendix A)
- B. Safety Data Sheet (SDS) for each test material per each quarry location
- C. Independent laboratory package including name, address, a list of aggregate tests the lab is qualified to perform, experience, AASHTO accreditation and AMRL Proficiency sample ratings for the last two years.
- D. The independent lab organization chart and technician's qualification including point of contact for manager, resumes, training records and experience.

The submittal package shall be provided to SATD via mail or electronically to the following address 45 days prior to the Quarterly Aggregate Bulletin update otherwise the SATD does not guarantee the test data to be included to the next published Aggregate Bulletin:

Attn: Dr. Intikhab Haider, Division Chief
Soils and Aggregate Technology
Maryland State Highway Administration
Office of Materials Technology
7450 Traffic Drive
Hanover, MD 21076
IHaider2@mdot.maryland.gov

After reviewing the submittals, we will inform you whether the independent lab is accepted or not. If the lab is accepted, the independent lab shall be valid for one (1) year from the date of the acceptance letter.

Aggregate Tests for Independent Laboratory

The accepted independent lab shall comply with the following aggregate test procedures and specification for aggregate testing.

- AASHTO T11 - Materials Finer Than 75- μ m (No. 200) Sieve by Washing
- AASHTO T27 - Sieve Analysis of Fine and Coarse Aggregate

- AASHTO T84 - Specific Gravity (Relative Density) and Absorption of Fine Aggregate
 - AASHTO T85 - Specific Gravity (Relative Density) and Absorption of Coarse Aggregate
 - AASHTO T96 – Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
 - AASHTO T104 - Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate
 - AASHTO R76 – Reducing Samples of Aggregate to Testing Size
 - AASHTO T255 – Total Evaporable Moisture Content of Aggregate by Drying
 - ASTM C 1260 - Accelerated Detection of Potentially Deleterious Expansion of Mortar Bars due to Alkali-Silica Reaction Aggregate or Aggregate/Pozzolan Combinations
- A. AASHTO accredited laboratories shall meet R-18 requirements and participate in the AMRL proficiency testing program. In addition, the laboratories should possess or have access to the equipment, facilities, personnel, and calibrated instruments, which are necessary to test material.
- B. The producers are encouraged to minimize the number of laboratories used per quarry to minimize errors of precision due to technicians and laboratories to ensure the test quality.
- C. The producers shall be submitting the independent lab submittal package to MDOT SHA rather than the independent lab submitting their information directly to us.

Split Samples

The producers shall have a split sample for each quarry before submitting samples to the independent lab.

The SATD will require the split samples as needed to ensure the test quality. The SATD Quality Assurance team may witness and pick the split sample during their normal plant visit. The aggregate producers are required to pay for sampling and reviewing test results in case they do not provide an approved/active contract number and a project charge number.

Test Results Submission by the Independent Laboratory

The independent lab shall submit the final test results along with raw data to the MDOT SHA lab. The raw data sheet shall include the laboratory letterhead with the technician's name, test date, address, contact information, and manager signature. The MDOT SHA will review and verify the test data before publishing in the Aggregate Bulletin.

Aggregate Bulletin

Keys

- (-) Under test/under evaluation
- (#) In accordance with the Standard Provision Insert (SPI) of Standard Specifications for Construction and Materials, July 2008, Table 901 D, and Aggregate Physical Property Requirements for Asphalt Mixes (Note (e)): when carbonate rock is used, it shall have a minimum of 25 percent insoluble residue retained on the No. 200 sieve. Otherwise, the aggregate source does not qualify for use as a high friction aggregate.
- (**) ASR determined in accordance with ASTM C 1293, *Determination of length change of concrete due to Alkali Silica Reaction*.
- DFV Dynamic Friction Value is defined as a coefficient of friction multiplied by 100. Accordingly, coarse aggregate is categorized as three broad categories: high, standard, and low DFVs, designated as HDFV, SDFV, and LDFV. These categories are presented below in detail:
- HDFV:
- Category I (HDFV I): DFV is equal to 50
 - Category II (HDFV II): DFV is equal to 45
 - Category III (HDFV III): DFV is equal to 40
- SDFV:
- Category IV (SDFV IV): DFV is equal to 30
 - Category V (SDFV V): DFV is equal to 25
- LDFV:
- Category VI (LDFV VI): DFV is less than 25

Maryland Department of Transportation - State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating [1]	ASR	Soundness	Material Tested For			
			(SSD)	(%)	(%)		(%)	(%)				
			T-84 & 85		T-96	MSMT 215 & 216	ASTM C1260	T-104	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
Allan Myers Materials, Inc.												
Cedar Hill Quarry Peach Bottom, PA												
	Coarse	#57	2.633	1.1	15	SDFV IV	0.02	0.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.583	2.1			0.02	3.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Allan Myers Materials, Inc.												
Elk Mills Quarry Elk Mills, MD												
	Coarse	#57	2.660	0.4	27	HDFV II	0.06	0.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.639	0.6				2.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Allan Myers Materials, Inc.												
Paradise Quarry Paradise, PA												
	Coarse	#57	2.827	0.4	28	SDFV V	0.05	0.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Allan Myers Materials, Inc.												
Talmage Quarry Talmage, PA												
	Coarse	#57	2.826	0.4	20	SDFV V	0.16	0.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Allegheny Aggregates, Inc.												
Bedrock Quarry Flintstone, MD												
	Coarse	#57	2.721	0.4	21	SDFV V	0.06	1.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.678	1.6				1.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Allegheny Aggregates, Inc.												
Short Gap Quarry Keyser, WV												
	Coarse	#67	2.702	0.8	22	SDFV V	0.08	1.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.658	1.8				3.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Byler Quarries												
Fiddler Elbow South Middletown, PA												
	Coarse	#57	2.770	0.3	22		0.01	7.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.706	0.9				2.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Note [1]:										Updated: April 30, 2024		
Category I	(HDFV I):	DFV-50	Category II	(HDFV II):	DFV-45	Category III	(HDFV III):	DFV-40				
Category IV	(SDFV IV):	DFV-30	Category V	(SDFV V):	DFV-25	Category VI	(LDFV VI):	DFV is less than 25.				

Maryland Department of Transportation - State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating [1]	ASR	Soundness	Material Tested For			
			(SSD)	(%)	(%)		(%)	(%)				
			T-84 & 85		T-96	MSMT 215 & 216	ASTM C1260	T-104	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
Carmeuse Americas												
Carmeuse Americas Winchester Operations Clearbrook, VA												
	Coarse	#57	2.723	0.4	20		0.28	2.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Carolina Stalite Company												
Gold Hill Gold Hill, NC												
	Coarse	#57	1.565	4.5	30		0.11	0.15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	1.974	6.2			0.10	1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chaney Enterprises, Inc.												
Bridgetown Henderson, MD												
	Coarse	#57	2.581	1.1	34		0.34	0.03	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fine	Concrete Sand	2.619	0.8			0.01**	1.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chaney Enterprises, Inc.												
Loveville Quarry Loveville, MD												
	Coarse	# 67	2.577	1.1	35		0.04**	3.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.618	1.0			0.03**	1.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chaney Enterprises, Inc.												
Mechanicsville Quarry Mechanicsville, MD												
	Coarse	#67	2.577	1.1	35		0.05**	0.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.617	0.7			0.02**	0.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chaney Enterprises, Inc.												
Moss Neck Woodford, VA												
	Coarse	# 67	2.665	0.3	36		0.10**	3.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.632	0.9			0.02**	1.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Note [1]: Category I (HDFV I): DFV-50
Category IV (SDFV IV): DFV-30

Category II (HDFV II): DFV-45
Category V (SDFV V): DFV-25

Category III (HDFV III): DFV-40
Category VI (LDFV VI): DFV is less than 25.

Updated:
April 30, 2024

Maryland Department of Transportation - State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating [1]	ASR	Soundness	Material Tested For			
			(SSD)	(%)	(%)		(%)	(%)	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
			T-84 & 85		T-96	MSMT 215 & 216	ASTM C1260	T-104				
Chaney Enterprises, Inc.												
Riddle Pit Harwood, MD	Coarse	#57	2.621	0.5	40		0.17	0.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.612	0.8			0.02**	1.8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chaney Enterprises, Inc.												
Sussex Seaford, DE	Fine	Concrete Sand	2.614	0.9			0.02**	2.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Mortar	2.597	0.9				1.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chaney Enterprises, Inc.												
Waldorf Quarry Waldorf, MD	Coarse	#67	2.569	1.0	31		0.04**	0.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.624	0.7			0.02**	2.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chaney Enterprises, Inc.												
Winchester Plant Clear Brook, VA	Coarse	#57	2.744	0.4	22	LDFV VI	0.08**	3.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	HMA Sand	2.614	0.9				2.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
David A. Bramble, Inc.												
Bridgetown Sand & Gravel Ridgely, MD	Fine	HMA Sand	2.614	0.9				2.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fine	HMA Sand	2.614	0.9				1.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Disney Sand & Gravel, LLC												
Hebron Quarry Hebron, MD	Fine	Concrete Sand	2.622	0.5			0.09	0.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Mortar	2.594	1.0				1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Note [1]:										Updated: April 30, 2024		
Category I	(HDFV I):	DFV-50	Category II	(HDFV II):	DFV-45	Category III	(HDFV III):	DFV-40				
Category IV	(SDFV IV):	DFV-30	Category V	(SDFV V):	DFV-25	Category VI	(LDFV VI):	DFV is less than 25.				

** ASTM C1293

Maryland Department of Transportation - State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity (SSD)	ABS (%)	LA (%)	Friction Rating [1]	ASR (%)	Soundness (%)	Material Tested For			
			T-84 & 85		T-96	MSMT 215 & 216	ASTM C1260	T-104	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
DunRite Sand & Gravel												
Vineland NJ												
Vineland, NJ												
	Fine	Concrete Sand	2.643	0.3			0.11	1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dyer Quarry, Inc.												
Dyer Quarry												
Birdsboro, PA												
	Coarse	#57	2.964	0.6	15	HDFV III	0.08	0.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.847	2.1				3.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fairfax Materials Inc.												
Ours Quarry												
Petersburg, WV												
	Coarse	#57	2.747	0.3	24		0.08	6.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Fairfax Materials Inc.												
Scherr Quarry												
New Creek, WV												
	Coarse	#67	2.707	0.5	24		0.09	4.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Fairfax Materials Inc.												
Thomas Quarry												
Thomas, WV												
	Fine	Concrete Sand	2.655	0.3			0.23	1.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
George's Creek Stone and Gravel, Inc.												
Barton Quarry												
Barton, MD												
	Coarse	#57: Limestone	2.728	1.0	21		0.14	0.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10: Limestone	2.674	1.8				5.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Greer Industries, Inc.												
Buckeye Limestone Company												
Morgantown, WV												
	Coarse	#57	2.724	0.6	18			0.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fine	#10	2.603	2.0				1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note [1]: Category I (HDFV I): DFV-50
Category IV (SDFV IV): DFV-30

Category II (HDFV II): DFV-45
Category V (SDFV V): DFV-25

Category III (HDFV III): DFV-40
Category VI (LDFV VI): DFV is less than 25.

Updated:
April 30, 2024

Maryland Department of Transportation - State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating [1]	ASR	Soundness	Material Tested For			
			(SSD)	(%)	(%)		(%)	(%)				
			T-84 & 85		T-96	MSMT 215 & 216	ASTM C1260	T-104	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
Gudelsky Group												
Chantilly Crushed Stone												
Chantilly, VA												
	Coarse	#57	3.050	0.6	15	HDFV II	0.08(-)	0.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.936	1.8				3.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gudelsky Group												
Gudelsky Materials												
Brandywine, MD												
	Coarse	#67	2.599	0.8	26		0.25	0.02	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.613	0.7			0.32	0.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Haines & Kibblehouse, Inc.												
Birdsboro Materials												
Birdsboro, PA												
	Coarse	#57	2.958	0.5	19	HDFV III	0.06	0.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.924	1.4				4.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Haines & Kibblehouse, Inc.												
Douglassville Quarry												
Douglassville, PA												
	Coarse	#57 Argillite	2.706	0.8	12	HDFV II	0.06	0.7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Coarse	#57 Diabase	3.174	0.4	16	HDFV II	0.04	0.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10 Argillite	2.675	1.8				4.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fine	#10 Diabase	3.097	0.8				3.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Haines & Kibblehouse, Inc.												
Easton Quarry												
Easton, PA												
	Coarse	#57	2.775	0.3	15	SDFV IV	0.20	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.708	1.8				0.9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Haines & Kibblehouse, Inc.												
Penn/MD Materials												
Peach Bottom, PA												
	Coarse	#57	2.670	0.6	17	SDFV IV	0.02	1.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.563	2.3				4.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Note [1]:	Category I	(HDFV I):	DFV-50	Category II	(HDFV II):	DFV-45	Category III	(HDFV III):	DFV-40	Updated: April 30, 2024		
	Category IV	(SDFV IV):	DFV-30	Category V	(SDFV V):	DFV-25	Category VI	(LDFV VI):	DFV is less than 25.			

Maryland Department of Transportation - State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity (SSD)	ABS (%)	LA (%)	Friction Rating [1]	ASR (%)	Soundness (%)	Material Tested For			
			T-84 & 85		T-96	MSMT 215 & 216	ASTM C1260	T-104	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
Haines & Kibblehouse, Inc. Sanatoga Quarry Pottstown, , PA												
	Coarse	#7	2.698	0.9	15	HDFV II		5.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Haines & Kibblehouse, Inc. Silver Hill Quarry Narvon, PA												
	Coarse	#57	3.028	0.3	21	HDFV II	0.03	0.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.999	0.6				2.7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heidelberg Materials Northeast LLC. Newport Sand & Gravel Newport, NJ												
	Fine	Concrete Sand	2.633	0.5			0.08	1.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Heidelberg Materials Northeast LLC. Upper Township Mine Woodbine, NJ												
	Fine	Concrete Sand	2.622	0.5			0.12	1.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Holcim Accokeek Sand and Gravel - Formerly Aggregate Industries Brandywine, MD												
	Coarse	#57	2.590	0.7	36		0.00	0.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.617	0.6			0.25	1.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Holcim Hayfield Sand & Gravel - Formerly Aggregate Industries Fredericksburg, VA												
	Coarse	#57	2.642	0.5	33		0.34	0.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fine	Concrete Sand	2.597	1.9			0.06	1.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Holcim Hickory Hill Sand and Gravel - Formerly Aggregate Industries Gloucester, VA												
	Fine	Concrete Sand	2.641	0.3			0.06	0.9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Note [1]: Category I (HDFV I): DFV-50 Category IV (SDFV IV): DFV-30										Category II (HDFV II): DFV-45 Category V (SDFV V): DFV-25		
										Category III (HDFV III): DFV-40 Category VI (LDFV VI): DFV is less than 25.		
										Updated: April 30, 2024		

Maryland Department of Transportation - State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating [1]	ASR	Soundness	Material Tested For			
			(SSD)	(%)	(%)		(%)	(%)				
			T-84 & 85		T-96	MSMT 215 & 216	ASTM C1260	T-104	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
Holcim												
Kirby Road Sand & Gravel - Formerly Aggregate Industries Clinton, MD												
	Coarse	#57	2.584	0.8	35		0.05	0.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.622	0.7			0.20	0.8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Holcim												
La Plata Sand & Gravel - Formerly Aggregate Industries La Plata, MD												
	Fine	Concrete Sand	2.621	0.7			0.15	1.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Holcim												
Mattaponi Sand & Gravel - Formerly Aggregate Industries Aylett, VA												
	Coarse	#57	2.608	0.6	37		0.25	0.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.649	0.4			0.13	0.7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Holcim												
Millville Quarry - Formerly Aggregate Industries Millville, WV												
	Coarse	#57	2.848	0.3	19	SDFV V	0.05	0.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.832	0.6			0.03	0.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Holcim												
New Kent Sand and Gravel New Kent, VA												
	Fine	Concrete Sand	2.643	0.3			0.07	0.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Holcim												
Rappahanock Farms Sand & Gravel - Formerly Aggregate Indust. King George, VA												
	Coarse	#57	2.638	0.3	37		0.06	0.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.605	1.3			0.07	1.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Holcim												
Rockville Crushed Stone - Formerly Aggregate Industries Rockville, MD												
	Coarse	#57	2.676	1.0	16		0.02	0.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.651	1.7			0.02	0.9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Note [1]:										Updated: April 30, 2024		
Category I	(HDFV I):	DFV-50	Category II	(HDFV II):	DFV-45	Category III	(HDFV III):	DFV-40				
Category IV	(SDFV IV):	DFV-30	Category V	(SDFV V):	DFV-25	Category VI	(LDFV VI):	DFV is less than 25.				

Maryland Department of Transportation - State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating [1]	ASR	Soundness	Material Tested For			
			(SSD)	(%)	(%)		(%)	(%)				
			T-84 & 85		T-96	MSMT 215 & 216	ASTM C1260	T-104	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
Holcim												
Sparrows Point - Formerly Aggregate Industries												
Yali, Greece												
	Fine	#10	1.736	1.8			0.05	0.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Keystone Lime Co., Inc.												
Eichorn Quarry												
Fort Hill, PA												
	Coarse	#57 - Loyalhanna	2.726	0.5	16	HDFV III	0.35	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Kinsley Materials												
PenRoc Operations												
York, PA												
	Coarse	#57	2.789	0.4	27	LDFV VI	0.01	0.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.722	1.2				2.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Laurel Sand & Gravel, Inc.												
Beaver Creek East Quarry												
Hagerstown, MD												
	Coarse	#57	2.831	0.3	15	SDFV IV	0.07	0.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.707	2.2				1.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Laurel Sand & Gravel, Inc.												
Laurel Hill Quarry												
Woodsboro, MD												
	Coarse	#57	2.623	0.8	17	HDFV II	0.29	0.8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.618	1.6				1.9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fine	Manufactured Sand	2.630	1.4			(-)	2.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Laurel Sand & Gravel, Inc.												
S.W. Barrick & Sons												
Woodsboro Quarry												
Woodsboro, MD												
	Coarse	#57	2.715	0.2	21	SDFV V	0.01 (-)	2.9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.605	2.6				1.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fine	Manufactured Sand	2.684	0.9			0.13	1.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Note [1]:												
Category I	(HDFV I):	DFV-50	Category II	(HDFV II):	DFV-45	Category III	(HDFV III):	DFV-40	Updated: April 30, 2024			
Category IV	(SDFV IV):	DFV-30	Category V	(SDFV V):	DFV-25	Category VI	(LDFV VI):	DFV is less than 25.				

Maryland Department of Transportation - State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating [1]	ASR	Soundness	Material Tested For			
			(SSD)	(%)	(%)		(%)	(%)				
			T-84 & 85		T-96	MSMT 215 & 216	ASTM C1260	T-104	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
Luck Stone Corporation												
Bealeton Bealeton, VA												
	Coarse	#57	2.988	0.5	14	HDFV III	0.04	0.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.854	2.7				4.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Luck Stone Corporation												
Boscobel Boscobel, VA												
	Coarse	#57	2.616	0.6	34		0.09	4.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Manufactured Sand	2.598	0.8			0.11	3.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Luck Stone Corporation												
Bull Run Chantilly, Virginia												
	Coarse	#57	2.940	0.6	15	HDFV III	0.14	0.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.826	1.6				2.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Luck Stone Corporation												
Caroline Plant Milford, VA												
	Fine	Concrete Sand	2.632	0.5			0.13	1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Luck Stone Corporation												
Culpeper Culpepper, VA												
	Coarse	#57	2.770	0.9	13	SDFV IV	0.02	0.8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Luck Stone Corporation												
Goose Creek Plant Leesburg (Goose Creek Plant), VA												
	Coarse	#57	2.957	0.5	13	HDFV III	0.06	0.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.907	1.3				1.7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note [1]: Category I (HDFV I): DFV-50
Category IV (SDFV IV): DFV-30

Category II (HDFV II): DFV-45
Category V (SDFV V): DFV-25

Category III (HDFV III): DFV-40
Category VI (LDFV VI): DFV is less than 25.

Updated:
April 30, 2024

Maryland Department of Transportation - State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating [1]	ASR	Soundness	Material Tested For			
			(SSD)	(%)	(%)		(%)	(%)				
			T-84 & 85		T-96	MSMT 215 & 216	ASTM C1260	T-104	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
Luck Stone Corporation												
Leesburg Leesburg (Leesburg Quarry), VA												
	Coarse	#57	2.997	0.5	14	HDFV II	0.08	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.962	0.6				3.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Luck Stone Corporation												
Spotsylvania - VA Spotsylvania, VA												
	Coarse	#57	2.709	0.3	34	HDFV III	0.07	0.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.739	0.2				2.8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Martin Marietta Materials												
Anderson Creek Quarry Rockville, VA												
	Coarse	#57	2.712	0.5	16		0.12	0.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Martin Marietta Materials												
Boonsboro Quarry Boonsboro, MD												
	Coarse	#57	2.847	0.2	16	SDFV V	0.00	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.821	0.9				0.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Martin Marietta Materials												
Churchville Quarry Bel Air, MD												
	Coarse	#57	3.070	0.2	20	HDFV III	0.02	0.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	3.021	0.1				0.9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Martin Marietta Materials												
Doswell Doswell, VA												
	Coarse	#57	2.735	0.5	18		0.17	0.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Martin Marietta Materials												
Frederick Quarry - Frederick (Martin Marietta), MD												
	Coarse	#57	2.712	0.3	24	SDFV IV	0.11	0.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.663	1.7				1.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Note [1]:										Updated: April 30, 2024		
Category I	(HDFV I):	DFV-50	Category II	(HDFV II):	DFV-45	Category III	(HDFV III):	DFV-40				
Category IV	(SDFV IV):	DFV-30	Category V	(SDFV V):	DFV-25	Category VI	(LDFV VI):	DFV is less than 25.				

Maryland Department of Transportation - State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating [1]	ASR	Soundness	Material Tested For			
			(SSD)	(%)	(%)		(%)	(%)				
			T-84 & 85		T-96	MSMT 215 & 216	ASTM C1260	T-104	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
Martin Marietta Materials												
Kent Sand & Gravel, LLC Massey, MD	Fine	Concrete Sand	2.609	0.6			0.04	2.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Martin Marietta Materials												
Medford Quarry New Windsor, MD	Coarse	#57 Basalt	2.929	0.5	29	HDFV I	0.04	0.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Coarse	#67 Limestone	2.713	0.4	46	SDFV V	0.01	0.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Manufactured Sand Limestone	2.698	0.5			0.03	1.8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Martin Marietta Materials												
North East Quarry North East, MD	Coarse	#57	2.940	0.3	20	HDFV III	0.07	0.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.724	0.5				3.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Martin Marietta Materials												
Pinesburg Quarry Williamsport, MD	Coarse	#57	2.810	0.5	16	LDFV VI	0.05	1.9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.737	1.8				1.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fine	Manufactured Sand	2.800	0.7			0.11	0.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Martin Marietta Materials												
Texas Quarry Cockeysville, MD	Coarse	#57	2.817	0.4	39	SDFV V	0.04	0.8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.845	0.3			0.03	5.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Martin Marietta Materials												
Warfordsburg Warfordsburg, PA	Coarse	#57	2.707	0.6	22	SDFV V		2.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fine	#10	2.624	1.7				3.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Note [1]:										Updated: April 30, 2024		
Category I	(HDFV I):	DFV-50	Category II	(HDFV II):	DFV-45	Category III	(HDFV III):	DFV-40				
Category IV	(SDFV IV):	DFV-30	Category V	(SDFV V):	DFV-25	Category VI	(LDFV VI):	DFV is less than 25.				

Maryland Department of Transportation - State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating [1]	ASR	Soundness	Material Tested For			
			(SSD)	(%)	(%)		(%)	(%)				
			T-84 & 85		T-96	MSMT 215 & 216	ASTM C1260	T-104	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
Martin Stone Quarries												
Bechtelsville Bechtelsville, PA												
	Coarse	#57	2.820	0.8	15	HDFV III	0.12	0.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Maryland Minerals, Inc.												
Sang Run Quarry McHenry, MD												
	Fine	Concrete Sand	2.626	0.6			0.14	3.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Maryland Minerals, Inc.												
Thayerville Quarry Oakland, MD												
	Coarse	#67	2.665	0.8	19		0.39	0.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Melvin L. Joseph Sand and Gravel, Co.												
Georgetown Quarry Georgetown, DE												
	Fine	Concrete Sand	2.632	0.4			0.23	1.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Mortar Sand	2.612	0.9				2.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Merrick Sand & Gravel												
Ingleside Plant Ingleside, MD												
	Fine	Concrete Sand	2.593	1.1			0.02**	1.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Mortar Sand	2.603	1.0				1.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
New Enterprise Stone & Lime Co Inc												
Ashcom Plant Everett, PA												
	Coarse	#57	2.810	0.3	16	LDFV VI	0.13	0.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.719	1.7				0.9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
New Enterprise Stone & Lime Co Inc												
Bakersville Plant Somerset, PA												
	Coarse	#57	2.680	0.4	14	HDFV II		1.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Note [1]: Category I (HDFV I): DFV-50
Category IV (SDFV IV): DFV-30

Category II (HDFV II): DFV-45
Category V (SDFV V): DFV-25

Category III (HDFV III): DFV-40
Category VI (LDFV VI): DFV is less than 25.

Updated:
April 30, 2024

Maryland Department of Transportation - State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating [1]	ASR	Soundness	Material Tested For			
			(SSD)	(%)	(%)		(%)	(%)				
			T-84 & 85		T-96	MSMT 215 & 216	ASTM C1260	T-104	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
New Enterprise Stone & Lime Co Inc												
Denver Quarry Denver, PA												
	Coarse	#57	2.780	0.2	16	SDFV V	0.17	0.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.596	1.1				1.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
New Enterprise Stone & Lime Co Inc												
Hinkletown Quarry Hinkletown, PA												
	Coarse	#57	2.814	0.3	17	LDFV VI	0.02	0.05	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.799	0.6			0.01	1.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
New Enterprise Stone & Lime Co Inc												
Honey Brook Quarry Honey Brook, PA												
	Fine	Concrete Sand	2.761	0.7			0.05	1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
New Enterprise Stone & Lime Co Inc												
Vintondale Quarry Johnstown, PA												
	Fine	Concrete Sand	2.595	1.1			0.18	2.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
New Enterprise Stone & Lime Co Inc												
Valley Quarries, Inc. Chambersburg Quarry Chambersburg, PA												
	Coarse	#57	2.711	0.3	17	SDFV V	0.11	0.02	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.618	2.0				0.7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
New Enterprise Stone & Lime Co Inc												
Valley Quarries, Inc. Gettysburg Quarry Gettysburg, PA												
	Coarse	#57	2.770	0.7	10	HDFV I	0.28	0.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.669	3.2				1.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note [1]: Category I (HDFV I): DFV-50
Category IV (SDFV IV): DFV-30

Category II (HDFV II): DFV-45
Category V (SDFV V): DFV-25

Category III (HDFV III): DFV-40
Category VI (LDFV VI): DFV is less than 25.

Updated:
April 30, 2024

Maryland Department of Transportation - State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating [1]	ASR	Soundness	Material Tested For			
			(SSD)	(%)	(%)		(%)	(%)				
			T-84 & 85		T-96	MSMT 215 & 216	ASTM C1260	T-104	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
New Enterprise Stone & Lime Co Inc												
Valley Quarries, Inc. Mt. Cydonia, Plant I Fayetteville, PA												
	Coarse	# 8	2.599	1.0	30	HDFV III		2.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Fine	Concrete Sand	2.616	0.8			0.05**	1.7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
New Enterprise Stone & Lime Co Inc												
Valley Quarries, Inc. Roaring Spring Plant Roaring Spring, PA												
	Coarse	#57	2.776	0.4	17	SDFV V	0.10	0.04	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.670	1.8			0.14	2.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Norlite, LLC												
Norlite LLC Cohoes, NY												
	Coarse	#7	1.593	9.9	31		0.03	0.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	1.918	3.2			0.07	0.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Northeast Solite Corporation												
Mount Marion Mine Saugesties, NY												
	Coarse	#57	1.512	9.7	28		0.05 (-)	2.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	1.946	6.0			0.10	0.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Patuxent Materials, Inc.												
Bridgetown Sand and Gravel Ridgely, MD												
	Fine	Concrete Sand	2.596	1.2			0.14	2.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Mortar Sand	2.575	1.5				0.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Patuxent Materials, Inc.												
Faulkner Plant Goldsboro, MD												
	Fine	Concrete Sand	2.623	0.5			0.15	1.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Mortar Sand	2.610	1.0				5.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Note [1]: <div> <div>Category I (HDFV I): DFV-50</div> <div>Category II (HDFV II): DFV-45</div> <div>Category III (HDFV III): DFV-40</div> <div>Category IV (SDFV IV): DFV-30</div> <div>Category V (SDFV V): DFV-25</div> <div>Category VI (LDFV VI): DFV is less than 25.</div> </div>										Updated: April 30, 2024		

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Maryland Department of Transportation - State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating [1]	ASR	Soundness	Material Tested For			
			(SSD)	(%)	(%)		(%)	(%)				
			T-84 & 85		T-96	MSMT 215 & 216	ASTM C1260	T-104	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
Patuxent Materials, Inc.												
Goldsboro Sand and Gravel/Perry Corner												
Goldsboro, MD												
	Fine	Concrete Sand	2.611	0.7			0.23	2.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Mortar Sand	2.612	0.7				1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pennsy Supply, Inc.												
Bay Road Plant												
Dover , DE												
	Fine	Concrete Sand	2.614	0.8			0.09	2.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pennsy Supply, Inc.												
East Petersburg/East Hempfield TWP												
Manheim, PA												
	Coarse	#57	2.783	0.4	18	SDFV IV	0.04	0.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.753	1.2				1.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pennsy Supply, Inc.												
Landisville/ West Hempfield TWP												
Mount Joy, PA												
	Coarse	#57	2.830	0.2	18	SDFV IV	0.08	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.800	0.6				3.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pennsy Supply, Inc.												
Millard Quarry												
Annville, PA												
	Coarse	#57	2.847	0.3	17	LDFV VI	0.03	0.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.795	0.6				1.8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pennsy Supply, Inc.												
Mt. Holley / Dickinson Township												
Mount Holly Springs, PA												
	Coarse	#8	2.618	1.1	32	HDFV II		0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Fine	Concrete Sand	2.579	2.0			0.04**	0.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Note [1]: Category I (HDFV I): DFV-50
Category IV (SDFV IV): DFV-30

Category II (HDFV II): DFV-45
Category V (SDFV V): DFV-25

Category III (HDFV III): DFV-40
Category VI (LDFV VI): DFV is less than 25.

Updated:
April 30, 2024

Maryland Department of Transportation - State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating [1]	ASR	Soundness	Material Tested For			
			(SSD)	(%)	(%)		(%)	(%)				
			T-84 & 85		T-96	MSMT 215 & 216	ASTM C1260	T-104	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
Pennsy Supply, Inc.												
Prescott/South Lebanon Township Lebanon, PA												
	Coarse	#57	2.801	0.5	19	LDFV VI	0.01	0.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.693	2.2				1.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pennsy Supply, Inc.												
Tarburton Plant Dover, DE												
	Fine	Concrete Sand	2.610	0.9			0.10	0.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Mortar	2.603	0.7				1.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rockville Fuel & Feed												
Marshyhope Operations, LLC Rosser Pit Federalsburg, MD												
	Fine	Concrete Sand	2.623	0.6			0.13	1.7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rohrer Quarry												
Lititz - PA Lititz, PA												
	Coarse	#57	2.785	0.2	24		0.16	0.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.747	0.5				2.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Savage Stone, LLC												
Savage Quarry Jessup, MD												
	Coarse	#57	2.942	0.8	22	HDFV III	0.03	8.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	# 10	2.874	1.2				4.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shelly Materials, Inc.												
Reedsville Reedsville, OH												
	Fine	Concrete Sand	2.621	1.4			0.24	1.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Silvi Materials												
Port Norris Port Norris, NJ												
	Fine	Concrete Sand	2.636	0.6			0.15	3.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Note [1]:										Updated: April 30, 2024		
Category I	(HDFV I):	DFV-50	Category II	(HDFV II):	DFV-45	Category III	(HDFV III):	DFV-40				
Category IV	(SDFV IV):	DFV-30	Category V	(SDFV V):	DFV-25	Category VI	(LDFV VI):	DFV is less than 25.				

Maryland Department of Transportation - State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity (SSD)	ABS (%)	LA (%)	Friction Rating [1]	ASR (%)	Soundness (%)	Material Tested For			
			T-84 & 85		T-96	MSMT 215 & 216	ASTM C1260	T-104	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
Sloan Materials, LLC Leonardtwn MD Leonardtwn, MD												
	Fine	Concrete Sand	2.613	0.8			0.25	2.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Specialty Granules Charmian Plant Blue Ridge Summit, PA												
	Coarse	#57 Mixed Metabasalt	2.956	0.4	18	HDFV I	0.37	0.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Fine	#10 Mixed Metabasalt	2.886	1.9				2.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
St. Thomas Development, Inc. St. Thomas Development St. Thomas, PA												
	Coarse	#57	2.706	0.3	24	LDFV VI	0.13	0.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.634	1.7				1.9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The Naceville Group Naceville Quarry Sellersville, PA												
	Coarse	#57	2.758	0.5	12		0.16	1.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.684	1.9				6.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The Naceville Group Plumstead Quarry Doylestown, pa												
	Coarse	#57	2.722	0.6	14	HDFV III	0.15	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.701	2.3				1.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Titan Mid-Atlantic Aggregates Branchville Sand Plant Branchville, VA												
	Fine	Concrete Sand	2.619	0.6			0.16	1.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Note [1]: Category I (HDFV I): DFV-50
Category IV (SDFV IV): DFV-30

Category II (HDFV II): DFV-45
Category V (SDFV V): DFV-25

Category III (HDFV III): DFV-40
Category VI (LDFV VI): DFV is less than 25.

Updated:
April 30, 2024

Maryland Department of Transportation - State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating [1]	ASR	Soundness	Material Tested For			
			(SSD)	(%)	(%)		(%)	(%)	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
			T-84 & 85		T-96	MSMT 215 & 216	ASTM C1260	T-104				
Titan Mid-Atlantic Aggregates												
Waverly Sand Plant												
Waverly, VA												
	Fine	Concrete Sand	2.613	0.9			0.12	0.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tuckahoe Sand & Gravel												
Tuckahoe NJ												
Tuckahoe, NJ												
	Fine	Concrete Sand	2.632	0.6			0.15	0.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
U.S. Silica Company												
U.S Silica Quarry												
Berkeley Springs, WV												
	Coarse	#57 Limestone	2.702	0.5	41	SDFV IV	0.22	0.7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vulcan Materials Company, Inc.												
Frederick Plant												
Frederick (Vulcan), MD												
	Coarse	#57	2.756	0.4	22	SDFV IV	0.14	2.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.612	0.9			0.16	5.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vulcan Materials Company, Inc.												
Graham Quarry												
Lorton, VA												
	Coarse	#57	2.700	0.3	33	HDFV II	0.02	0.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.681	0.3				3.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulcan Materials Company, Inc.												
Hanover Plant												
Hanover, PA												
	Coarse	#57	2.797	0.5	22	SDFV V	0.01	1.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Manufactured Sand	2.813	0.3			0.02	1.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vulcan Materials Company, Inc.												
Havre de Grace Quarry												
Havre de Grace, MD												
	Coarse	#57	2.830	0.4	15	HDFV III	0.24	0.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.872	0.6				3.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Note [1]:												
Category I	(HDFV I):		DFV-50	Category II	(HDFV II):		DFV-45	Category III	(HDFV III):		DFV-40	Updated: April 30, 2024
	Category IV	(SDFV IV):			DFV-30	Category V	(SDFV V):		DFV-25	Category VI	(LDFV VI):	

Maryland Department of Transportation - State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating [1]	ASR	Soundness	Material Tested For			
			(SSD)	(%)	(%)		(%)	(%)				
			T-84 & 85		T-96	MSMT 215 & 216	ASTM C1260	T-104	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
Vulcan Materials Company, Inc.												
Jack Quarry Petersburg, VA												
	Coarse	#57	2.658	0.6	22		0.07	0.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vulcan Materials Company, Inc.												
Manassas Quarry Manassas, VA												
	Coarse	#57	2.843	0.8	11	HDFV III	0.03	0.9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.759	2.1				1.7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulcan Materials Company, Inc.												
Puddledock Prince George, VA												
	Fine	Concrete Sand	2.596	0.9			0.05	3.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vulcan Materials Company, Inc.												
Quinton Sand Pit Salem, NJ												
	Fine	Concrete Sand	2.618	0.7			0.18(-)	1.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Mortar Sand	2.639	0.6				0.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulcan Materials Company, Inc.												
Sanders Quarry Warrenton, VA												
	Coarse	#57	2.955	0.8	10	HDFV I	0.06	0.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.829	3.1				1.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulcan Materials Company, Inc.												
Seaford Terminal Seaford, DE												
	Fine	Concrete Sand	2.608	0.9			0.07	2.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vulcan Materials Company, Inc.												
Stafford Quarry Garrisonville, VA												
	Coarse	#57	2.925	0.3	15		0.08	0.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.800	1.0					<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Note [1]:												
Category I	(HDFV I):	DFV-50	Category II	(HDFV II):	DFV-45	Category III	(HDFV III):	DFV-40	Updated: April 30, 2024			
Category IV	(SDFV IV):	DFV-30	Category V	(SDFV V):	DFV-25	Category VI	(LDFV VI):	DFV is less than 25.				

Maryland Department of Transportation - State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating [1]	ASR	Soundness	Material Tested For			
			(SSD)	(%)	(%)		(%)	(%)				
			T-84 & 85		T-96	MSMT 215 & 216	ASTM C1260	T-104	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
Vulcan Materials Company, Inc.												
Wolman Sand Seaford , DE												
	Fine	Concrete Sand	2.601	1.1			0.07	2.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Mortar Sand	2.587	1.2				3.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulcan Materials Company, Inc.												
York Plant York, PA												
	Coarse	#57	2.824	0.4	29	SDFV V	0.01	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Manufactured Sand	2.791	0.8			0.01	2.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Whibco of NJ, Inc												
Port Elizabeth - Plant #1 Port Elizabeth, NJ												
	Fine	Concrete Sand	2.654	0.2			0.04	1.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
York Building Products												
Eastern Shore Sand and Gravel, Ingleside Plant Henderson, MD												
	Coarse	#57	2.513	2.4	34			0.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fine	Concrete Sand	2.599	1.2			0.04**	1.7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Mortar Sand	2.551	2.4				0.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
York Building Products												
Lincoln Stone Division Thomasville Quarry Thomasville, PA												
	Coarse	#57	2.780	0.3	18		0.02	0.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.710	1.7				2.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
York Building Products												
Principio Quarry Port Deposit, MD												
	Coarse	#57	2.663	0.7	21	HDFV I	0.12	0.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.650	0.3				4.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note [1]: Category I (HDFV I): DFV-50
Category IV (SDFV IV): DFV-30

Category II (HDFV II): DFV-45
Category V (SDFV V): DFV-25

Category III (HDFV III): DFV-40
Category VI (LDFV VI): DFV is less than 25.

Updated:
April 30, 2024

Maryland Department of Transportation - State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating [1]	ASR	Soundness	Material Tested For			
			(SSD)	(%)	(%)		(%)	(%)				
			T-84 & 85		T-96	MSMT 215 & 216	ASTM C1260	T-104	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
York Building Products												
Roosevelt Quarry York, PA												
	Coarse	#57	2.795	0.4	30	LDFV VI	0.01	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.804	0.8				1.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
York Building Products												
Mason-Dixon Materials Belvedere Plant Port Deposit , MD												
	Fine	Concrete Sand	2.612	1.1			0.04	1.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Mortar Sand	2.621	0.9				0.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
York Building Products												
Mason-Dixon Materials Cecil Plant Port Deposit, MD												
	Fine	Concrete Sand	2.618	0.9			0.02	1.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
York Building Products												
Mason-Dixon Materials Perryville Plant Perryville, MD												
	Fine	Concrete Sand	2.630	0.6			0.04**	1.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Mortar	2.628	0.6				1.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note [1]: Category I (HDFV I): DFV-50
Category IV (SDFV IV): DFV-30
Category II (HDFV II): DFV-45
Category V (SDFV V): DFV-25
Category III (HDFV III): DFV-40
Category VI (LDFV VI): DFV is less than 25.

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April 30, 2024