

Illinois Department of Transportation
Bureau of Materials
QUALIFIED PRODUCER LIST OF FINELY DIVIDED MINERALS
September 29, 2017

This list supersedes the August 18, 2017 list.

Standard Specifications for Road and Bridge Construction Section 1010 (Adopted April 1, 2016)
Current Policy Memorandum, "Acceptance Procedure for Finely Divided Minerals Used in Portland Cement Concrete and Other Applications."

For information regarding new product submittal, click the "New Submittal" bookmark to the left.

FLY ASH

<u>SUPPLIER:</u> Charah Inc. , 12601 Plantside Dr., Louisville, KY 40299 Contact: Danny Gray, P.E., Ph.: (502) 245-1353 Fax: (502) 245-7398

<u>Source</u>	<u>Unit No.</u>	<u>Producer/ Supplier No.</u>	<u>Class</u>	<u>Material Code No.</u>	<u>R Factor</u> ^A	<u>Average Specific Gravity</u>
Louisville Gas & Electric ^B Mill Creek Power Station Louisville, KY	1,2,3,4	52503-05	F	37802	-0.12	2.62

<u>SUPPLIER:</u> Fly Ash Direct Ltd. , 4228 Airport Rd. Cincinnati, OH 45226 Contact Scott Keith, Operations Manager, Ph.: (513) 871-9733 Fax: (513) 871-1974

<u>Source</u>	<u>Unit No.</u>	<u>Producer/ Supplier No.</u>	<u>Class</u>	<u>Material Code No.</u>	<u>R Factor</u> ^A	<u>Average Specific Gravity</u>
City Water, Light & Power ^B Dallman Station Springfield, IL	4	51679-01	F	37802	0.16	2.47
Electric Energy Inc./Dynergy, Inc. ^{B,D} Joppa Power Plant Joppa, IL	1,2,3,4,5, 6	51273-01	C	37801	3.20	2.74

<u>SUPPLIER:</u> National Minerals Corp. , 2978 Center Court, Eagan, MN 55121 Contact Travis Collins, Vice President, Ph.: (651) 454-4151

<u>Source</u>	<u>Unit No.</u>	<u>Producer/ Supplier No.</u>	<u>Class</u>	<u>Material Code No.</u>	<u>R Factor</u> ^A	<u>Average Specific Gravity</u>
Alliant Energy Corporation ^{B,D} Burlington Station Burlington, IA	1	52203-05	C	37801	3.38	2.67
Alliant Energy Corporation ^{B,D} Ottumwa Station Near Chillicothe, IA	1	52203-02	C	37801	3.17	2.65

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SUPPLIER: **Headwaters Resources**, 290 Timber Ridge Drive, Marthasville, MO 63357
Contact: Ben Franklin, Director of Technical Services (Central), Ph.: (636) 828-4780 Fax: (866) 449-8109

<u>Source</u>	<u>Unit No.</u>	<u>Producer/ Supplier No.</u>	<u>Class</u>	<u>Material Code No.</u>	<u>R Factor</u> ^A	<u>Average Specific Gravity</u>
Associated Electric ^{B,D} Thomas Hill Station Clifton, MO	3	52303-06	C	37801	3.22	2.66
Mid-American Energy ^{B,D} Louisa Station Near Muscatine, IA	1	52203-01	C	37801	3.38	2.65
Sikeston Power Plant ^{B,D} Sikeston Station Sikeston, MO	1	52303-05	C	37801	2.69	2.65

SUPPLIER: **Headwaters Resources**, 1217 Cape Coral Pkwy, E 190, Cape Coral, FL 33904
Contact: Craig Wallace Technical Director Eastern Division, Ph.: (239) 565-2338 Fax: (866) 449-8108

<u>Source</u>	<u>Unit No.</u>	<u>Producer/ Supplier No.</u>	<u>Class</u>	<u>Material Code No.</u>	<u>R Factor</u> ^A	<u>Average Specific Gravity</u>
Ameren UE ^{B,E} Rush Island Power Station Festus, MO	1, 2	52303-07	C	37801	5.33	2.80
Dynegy Midwest ^{B,D} Baldwin Power Station Baldwin, IL	3	51573-01	C	37801	3.96	2.82
Dynegy Midwest ^{B,E} Havana Power Station Havana, IL	6	51253-01	C	37801	4.26	2.78
Dynegy Midwest ^{B,D} Hennepin Station Hennepin, IL	1, 2	51553-01	C	37801	3.67	2.79
Dynegy Midwest ^{B,D} Newton Power Station Newton, IL	1,2	50793-01	C	37801	3.56	2.76
Lansing Board of Water & Light ^{B,D} Erickson Station Lansing, MI	1	52603-03	C	37801	2.61	2.65
N. Indiana Public Service ^{B,D} Schahfer Power Station Wheatfield, IN	15	52103-18	C	37801	2.90	2.68
N. Indiana Public Service ^B Schahfer Power Station Wheatfield, IN	17,18	52103-18	F	37802	-0.09	2.41

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Prairie State Generating Co. ^B Prairie State Station Marissa, IL	1,2	51633-07	F	37802	0.08	2.35
Union Electric ^{B,D} Labadie Station Labadie, MO	1, 2	52303-04	C	37801	3.70	2.72

SUPPLIER: LafargeHolcim, 1263 Lakeview Drive, Romeoville, IL 60446
Contact Brian Borowski, Quality Assurance Manager, Ph.: (630) 243-4699 Fax: (630) 505-0330

<u>Source</u>	<u>Unit No.</u>	<u>Producer/ Supplier No.</u>	<u>Class</u>	<u>Material Code No.</u>	<u>R Factor</u> ^A	<u>Average Specific Gravity</u>
Alliant Power ^{B,D} Columbia Station Portage, WI	1, 2	52403-03	C	37801	3.15	2.65
Alliant Power ^{B,D} Edgewater Station Sheboygan, WI	5	52403-05	C	37801	2.97	2.69
Muscatine Power & Water ^{B,E} Muscatine Station Muscatine, IA	9	52203-04	C	37801	4.03	2.79
OGE Energy Corp. ^{B,E} Muskogee Power Plant Fort Gibson, OK	5,6,7	52353-03	C	37801	4.17	2.76
We-Energies ^{B,D} Oak Creek Station Oak Creek, WI	5,6,7,8	52403-06	C	37801	3.69	2.71
We-Energies ^B Elm Road Station Oak Creek, WI	1	52403-09	F	37802	0.49	2.67
We-Energies ^{B,D} Elm Road Station Oak Creek, WI	2	52403-09	C	37801	4.02	2.60
We-Energies ^{B,D} Pleasant Prairie Station Near Kenosha, WI	1, 2	52403-02	C	37801	3.66	2.57
We-Energies Presque Isle Marquette, MI	7,8,9	52603-05	C	37801	2.89	2.65
Wisc. Public Service Corp. ^{B,D} Weston Station Rothschild, WI	1,2,3	52403-07	C	37801	2.89	2.67

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SUPPLIER: **VHSC Cement, LLC**, 2204 Timberloch Place, Suite 248, The Woodlands, TX 77380
Contact: Jim DeYoung, Sales, Ph.: (713) 254-5600

<u>Source</u>	<u>Unit No.</u>	<u>Producer/ Supplier No.</u>	<u>Class</u>	<u>Material Code No.</u>	<u>R Factor</u> ^A	<u>Average Specific Gravity</u>
Dinegy Midwest ^{B,D} Duck Creek Power Station Canton, IL	1	50573-01	C	37801	3.26	2.61

Notes B, C, D, and E apply to the Portland Cement Concrete (BDE) special provision which includes alkali-silica reaction mitigation requirements for cast-in-place, precast, and precast prestressed concrete.

- ^A The R value, an indicator of the relative sulfate resistance of a fly ash, is a ratio of calcium to iron oxide expressed as follows: $R = (\% \text{ CaO} - 5) \div (\% \text{ Fe}_2\text{O}_3)$.
- ^B The average equivalent available alkali content ($\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$) of this fly ash is $\leq 4.50\%$. However, this does not ensure that fly ash in subsequent shipments will continue to exhibit these properties. Users are advised to request current test data for equivalent available alkali content when specifying fly ash meeting this requirement.
- ^C The average equivalent available alkali content ($\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$) of this fly ash is $> 4.50\%$.
- ^D The average calcium oxide (CaO) of this Class C fly ash is $\leq 26.50\%$. However, this does not ensure that fly ash in subsequent shipments will continue to exhibit these properties. Users are advised to request current test data for CaO when specifying fly ash meeting this requirement.
- ^E The average calcium oxide (CaO) of this Class C fly ash is $> 26.50\%$.
- ^F The fly ash shall not be used in portland cement concrete or cement aggregate mixture II (Article 1010.02 (b)).

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GROUND GRANULATED BLAST-FURNACE SLAG

<u>PRODUCER/SUPPLIER:</u>	Skyway Cement Company LLC , 3020 East 103 rd Street, Chicago, IL 60617 Contact: Roberto Carrillo, Quality Supervisor, Ph.: (800) 643-1808, Ext. 5910 Fax: (773) 978-6811
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<u>Source</u>	<u>Producer/ Supplier No.</u>	<u>Grade</u>	<u>Material Code No.</u>	<u>Average Specific Gravity</u>
Skyway Cement Company ^B Chicago Grinding Plant 3020 East 103rd Street Chicago, IL 60617	6968-01	100	37821	2.90

<u>PRODUCER/SUPPLIER:</u>	LafargeHolcim , 2150 E. 130th St., Chicago, IL 62633 Contact: Jim Opolony, Quality and Process Engineer, Ph.: (773) 646-5228 Fax: (773) 646-3360
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<u>Source</u>	<u>Producer/ Supplier No.</u>	<u>Grade</u>	<u>Material Code No.</u>	<u>Average Specific Gravity</u>
LafargeHolcim ^B South Chicago Grinding Facility 215 E. 130th Street Chicago, IL 62633	6967-08	120	37822	2.94
LafargeHolcim ^B South Chicago Grinding Facility 215 E. 130th Street Chicago, IL 62633	6967-08	100	37821	2.92

<u>PRODUCER/SUPPLIER:</u>	St. Marys Cement , 1975 Carferry Drive, Milwaukee, WI 53207 Contact: Linda Harris, Quality Control Supervisor, Ph.: (313) 849-4581
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<u>Source</u>	<u>Producer/ Supplier No.</u>	<u>Grade</u>	<u>Material Code No.</u>	<u>Average Specific Gravity</u>
St. Marys Cement ^B Badger Plant 1975 S. Carferry Drive Milwaukee, WI, 53207	2207-04	100	37821	2.88

Notes A, B apply to the Portland Cement Concrete (BDE) special provision which includes alkali-silica reaction mitigation requirements for cast-in-place, precast, and precast prestressed concrete.

^A The average equivalent available alkali content (Na₂O + 0.658K₂O) of this ground granulated blast-furnace slag is > 1.00%.

^B The average equivalent available alkali content (Na₂O + 0.658K₂O) of this ground granulated blast-furnace slag is ≤ 1.00%.

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HIGH REACTIVITY METAKAOLIN (HRM)

PRODUCER/SUPPLIER: **Advanced Cement Technologies, LLC, 435 Martin St., Suite 2040, Blaine, WA 98231**
 Contact: Ken McPhalen, Manager-Technical Services, Ph.: (360) 332-7060 Fax: (360) 332-9321

<u>Source</u>	<u>Producer/ Supplier No.</u>	<u>Material Code No.</u>	<u>Average Specific Gravity</u>
Grace Davison ^B 213 Kaolin Road Aiken, SC 29801	6206-01	37803	2.61

Notes A, B apply to the Portland Cement Concrete (BDE) special provision which includes alkali-silica reaction mitigation requirements for cast-in-place, precast, and precast prestressed concrete.

^A The average equivalent available alkali content ($\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$) of this high reactivity metakaolin is $> 1.00\%$.

^B The average equivalent available alkali content ($\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$) of this high reactivity metakaolin is $\leq 1.00\%$.

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MICROSILICA

PRODUCER/SUPPLIER: **Norchem, Inc.**, 985 Seaway Drive, Suite A, Fort Pierce, FL 34949
Contact: Rico T. Plotria, Quality Assurance Engineer, Ph.: (772) 468-6110 Fax: (772) 468-8702

<u>Source</u>	<u>Producer/ Supplier No.</u>	<u>Material Code No.</u>	<u>Average Specific Gravity</u>
Norchem, Inc. ^B P.O. Box 157, County Rd. 32 Beverly, OH 45715	5580-01	37852	2.24
Norchem, Inc. ^B Route 60 East Alloy, WV 25002	5580-02	37852	2.23
<u>Supplier for OH or WV Source</u>	<u>Supplier No.</u>	<u>Trade Name</u>	
BASF	4179-04	Masterlife SF 100	
Euclid Chemical Co.	614-01	Eucon MSA	
Sika Corp.	2231-01	Sikacrete 950 DP	
W. R. Grace	767-01	Force 10000D	
Norchem, Inc. ^B 3807 Highland Avenue Niagara Falls, NY 14305	5580-03	37852	2.24

Notes A, B apply to the Portland Cement Concrete (BDE) special provision which includes alkali-silica reaction mitigation requirements for cast-in-place, precast, and precast prestressed concrete.

^A The average equivalent available alkali content ($\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$) of this microsilica is $> 1.00\%$.

^B The average equivalent available alkali content ($\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$) of this microsilica is $\leq 1.00\%$.

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DRY EXPANSIVE COMPONENT

<u>PRODUCER/SUPPLIER:</u>	CTS Cement Manufacturing, Inc., 11065 Knott Ave., Suite A., Cypress, CA 90630 Contact: Ryan Gardner, Quality Manager, Ph.: (714) 379-8260 Fax: (714) 379-8270
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<u>Source</u>	<u>Producer/ Supplier No.</u>	<u>Material Code No.</u>	<u>Type</u>	<u>Average Specific Gravity</u>
CTS Cement Manufacturing, Inc. GCS Cementos, S.A. de C.V. 5 KM AL PONIENTE DEL AEROPUERTO FEDERAL COL CEMENTERA JUAREZ CHIHUAHUA	4894-02	37810	K	2.85

**Finely Divided Minerals Used in
Portland Cement Concrete and Other Applications
Submittal for Testing and Approval**

Effective: July 27, 2007
Revised: July 22, 2016

A. Scope

The following guidelines are provided to clarify the submittal requirements and expedite the process for approving finely divided minerals according to the Department's current [Standard Specifications for Road and Bridge Construction](#) (link embedded), [2016 Supplemental Specifications and Recurring Special Provisions](#) (link embedded), and Shrinkage-Compensating Concrete in Bridge Deck Concrete (BMPPR), and current policy memorandum "[Acceptance Procedure for Finely Divided Minerals Used in Portland Cement Concrete and Other Applications](#)" (link embedded).

B. Procedure

When submitting finely divided minerals to the Department, the following shall be included:

For **Approved Sources** (approved by the Bureau to ship a finely divided mineral for immediate use on Department projects), refer to Section 4 of the policy memorandum.

For **Unapproved Sources** (ships a finely divided mineral which must be sampled, tested, and approved by the Bureau before it is used on Department projects), refer to Section 5 of the policy memorandum. An unapproved source is not permitted for dry expansive component.

In addition to the requirements of the policy memorandum, the following shall be included:

- A signed letter stating the subject material will not be changed without written notification to the Department,
- Contact person's name, title, address, email address, and phone number, and
- Acknowledgement by Company (see next page).

The manufacturer shall submit a minimum 3 kg (6 lb.) sample of the subject material.

The sample and submittal information shall be sent to:

Brian Lokaitis
Illinois Department of Transportation
Bureau of Materials
126 East Ash Street
Springfield, IL 62704-4766

Any sample provided without the required information listed will not be tested. Any changes outside the manufacturer's original parameters will necessitate a new sample submittal. Additional sample submittals shall be according to the policy memorandum.

The manufacturer will be notified when the sample testing is complete. For questions regarding the testing and approval process, contact Brian Lokaitis at 217-782-4028.

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**Finely Divided Minerals Used in
Portland Cement Concrete and Other Applications
Submittal for Testing and/or Approval**

Effective: July 27, 2007
Revised: July 22, 2016

Instructions for Acknowledgement by Company:

The owner, partner, or corporate officer shall complete the following and return a signed and dated copy with the product submittal or recertification.

_____ desires to obtain advance approval of materials to be
(Insert name of company)
supplied to Department of Transportation contractors as more fully described herein. I
and _____ understand that the Department of Transportation
(Insert name of company)
reserves the right in its contracts to approve materials at the source of supply as
provided in Article 106.01 of the Standard Specifications for Road and Bridge
Construction. I and _____ further understand that approval of
(Insert name of company)
company supplied material pursuant to this request does not constitute a contract to
supply material to the State of Illinois or any of its contractors, and that the Department
of Transportation does not assure or guarantee that any materials approved hereunder
will be supplied to the State or any of its contractors. In consideration of approval, I and
_____ agree to the terms, conditions and performance
(Insert name of company)
standards of the Standard Specifications for Road and Bridge Construction.

Type of Company: Individual Partnership Corporation

Company Name _____

Printed Name _____

Signature _____

Title _____

Business Address _____

City/State/Zip Code _____

Date of Signature _____