

Illinois Department of Transportation
Bureau of Materials

Qualified Producer List
FINELY DIVIDED MINERALS

October 30, 2020

This list supersedes the May 15, 2020 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

SUPPLIER: 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^A</u>	<u>Average Specific Gravity</u>
Dynegy ^B Miami Fort Station North Bend, OH	7,8	52353-04	F	37802	0.08	2.53

SUPPLIER: 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^A</u>	<u>Average Specific Gravity</u>
City Water, Light & Power ^B Dallman Station Springfield, IL	4	51679-01	F	37802	0.13	2.44
Electric Energy Inc./Dynegy, Inc. ^{B,D} Joppa Power Plant Joppa, IL	1,2,3,4,5, 6	51273-01	C	37801	3.98	2.77

SUPPLIER: 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^A</u>	<u>Average Specific Gravity</u>
Alliant Energy Corporation ^{B,E} Burlington Station Burlington, IA	1	52203-05	C	37801	3.65	2.67
Alliant Energy Corporation ^{B,E} Ottumwa Station Near Chillicothe, IA	1	52203-02	C	37801	4.32	2.74

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SUPPLIER: Boral 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^A</u>	<u>Average Specific Gravity</u>
Ameren UE ^{B,D} Rush Island Power Station Festus, MO	1, 2	52303-07	C	37801	3.31	2.70
Associated Electric ^{B,D} Thomas Hill Station Clifton, MO	3	52303-06	C	37801	3.32	2.76
Dynergy ^{B,D} Edwards Station Bartonville, IL	2, 3	51433-04	C	37801	3.27	2.71
Lansing Board of Water & Light ^{B,D} Erickson Station Lansing, MI	1	52603-03	C	37801	2.63	2.69
Louisville Gas & Electric ^B Mill Creek Power Station Louisville, KY	1,2,3,4	52503-05	F	37801	-0.07	2.49
Mid-American Energy ^{B,D} Louisa Station Near Muscatine, IA	1	52203-01	C	37801	3.31	2.64
N. Indiana Public Service ^{B,D} Schahfer Power Station Wheatfield, IN	15	52103-18	C	37801	2.80	2.66
N. Indiana Public Service ^B Schahfer Power Station Wheatfield, IN	17,18	52103-18	F	37802	-0.03	2.40
Prairie State Generating Co. ^B Prairie State Station Marissa, IL	1,2	51633-07	F	37802	0.12	2.38
Sikeston Power Plant ^{B,D} Sikeston Station Sikeston, MO	1	52303-05	C	37801	2.65	2.62
Union Electric ^{B,D} Labadie Station Labadie, MO	1, 2	52303-04	C	37801	3.30	2.76

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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^A</u>	<u>Average Specific Gravity</u>
Alliant Power ^{B,D} Columbia Station Portage, WI	1, 2	52403-03	C	37801	3.91	2.70
Alliant Power ^{B,D} Edgewater Station Sheboygan, WI	5	52403-05	C	37801	3.46	2.67
Muscatine Power & Water ^{B,E} Muscatine Station Muscatine, IA	9	52203-04	C	37801	3.75	2.76
OGE Energy Corp. ^{B,E} Muskogee Power Plant Fort Gibson, OK	5,6,7	52353-03	C	37801	4.45	2.74
We-Energies ^{B,D} Oak Creek Station Oak Creek, WI	5,6,7,8	52403-06	C	37801	3.17	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	2.01	2.64
Wisc. Public Service Corp. ^{B,D} Weston Station Rothschild, WI	1,2,3	52403-07	C	37801	3.33	2.68

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^A</u>	<u>Average Specific Gravity</u>
Dynegy ^{B,D} Duck Creek Power Station Canton, IL	1	50573-01	C	37801	3.11	2.66

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SUPPLIER: Ozinga Cement, 19001 Old Lagrange Road, Mokena, IL 60445 Contact: Ben Franklin, Vice President of Technical Services, Ph.: (636) 828-4779						
Source	Unit No.	Producer/ Supplier No.	Class	Material Code No.	R Factor ^A	Average Specific Gravity
City Water, Light & Power ^B Dallman Station Springfield, IL	4	51673-02	F	37802	0.16	2.46
Dynergy ^{B,D} Duck Creek Power Station Canton, IL	1	50573-02	C	37801	2.89	2.58
Dynergy ^{B,D} Edwards Station Bartonville, IL	2,3	51433-05	C	378041	3.27	2.71
Electric Energy Inc./Dynergy, Inc. ^{B,D} Joppa Power Plant Joppa, IL	1,2,3, 4,5,6	51273-02	C	37801	3.83	2.74
Carbon Smart, Class F. ^{B,D, G} Blend Sources: Newton Station Dallman Station	n/a	1494-70	F	37805	1.32	2.60

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)).
- ^G This fly ash is a blended product meeting the requirements of a Class F fly ash (Article 1010.06).

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GROUND GRANULATED BLAST-FURNACE SLAG

PRODUCER/SUPPLIER: 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				
<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 103 rd Street Chicago, IL 60617	6968-01	100	37821	2.87

PRODUCER/SUPPLIER: LafargeHolcim, 2150 E. 130 th St., Chicago, IL 62633 Contact: Jim Opolony, Quality and Process Engineer, Ph.: (773) 646-5228 Fax: (773) 646-3360				
<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. 130 th Street Chicago, IL 62633	6967-08	120	37822	2.95
LafargeHolcim ^B South Chicago Grinding Facility 215 E. 130 th Street Chicago, IL 62633	6967-08	100	37821	2.95

PRODUCER/SUPPLIER: St. Marys Cement, 1975 Carferry Drive, Milwaukee, WI 53207 Contact: Linda Harris, Quality Control Supervisor, Ph.: (313) 849-4581				
<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 ($\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$) of this ground granulated blast-furnace slag is $> 1.00\%$.

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

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HIGH REACTIVITY METAKAOLIN (HRM)

<u>PRODUCER/SUPPLIER:</u>	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	2.62

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

<u>PRODUCER/SUPPLIER:</u>	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
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<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	2.26
Norchem, Inc. ^B Route 60 East Alloy, WV 25002	5580-02	37852	2.20
<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	2.22

<u>PRODUCER/SUPPLIER:</u>	R-E-D Industrial Products , 100 Meadow Lane, Suite 7, Dubois, PA 51804 Contact: Bob Kedanis, Quality Control, Ph.: (724) 967-5689 Fax: (877) 773-2281
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<u>Source</u>	<u>Producer/ Supplier No.</u>	<u>Material Code No.</u>	<u>Average Specific Gravity</u>
Mississippi Silicon ^B 80 CR 210 Burnsville, MS 38833	7170-01	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 (Na₂O + 0.658K₂O) of this microsilica is > 1.00%.

^B The average equivalent available alkali content (Na₂O + 0.658K₂O) of this microsilica is ≤ 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		
<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

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Submittal for Testing and Approval

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](#), [2016 Supplemental Specifications and Recurring Special Provisions](#), and Shrinkage-Compensating Concrete in Bridge Deck Concrete (CBM), and current policy memorandum ["Acceptance Procedure for Finely Divided Minerals Used in Portland Cement Concrete and Other Applications"](#).

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 form [BMPR 101](#).

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

The sample and submittal information shall be sent to:

Illinois Department of Transportation
Bureau of Materials
[Brian Lokaitis](#)
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.