

Illinois Department of Transportation
Bureau of Materials

Qualified Producer List
FINELY DIVIDED MINERALS

June 28, 2024

This list supersedes the May 17, 2024 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: Tim Cole, Regional Sales Manager, Ph.: (502) 245-0043 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> |
| Associated Electric ^{B,D} Thomas Hill Station Clifton, MO | 3 | 52303-06 | C | 37801 | 3.32 | 2.76 |
| Dynergy ^B Miami Fort Station North Bend, OH | 7,8 | 52353-04 | F | 37802 | 0.08 | 2.53 |

| 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} Ottumwa Station Near Chillicothe, IA | 1 | 52203-02 | C | 37801 | 4.32 | 2.74 |

| SUPPLIER: Eco Material Technologies, 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 |
| Duke Energy ^B Cayuga Station Cayuga, IN | 1,2 | 52103-33 | F | 37802 | -0.06 | 2.51 |
| Lansing Board of Water & Light ^{B,D} Erickson Station Lansing, MI | 1 | 52603-03 | C | 37801 | 2.63 | 2.69 |
| Mid-American Energy ^{B,D} Louisa Station Near Muscatine, IA | 1 | 52203-01 | C | 37801 | 3.31 | 2.64 |

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|-----------------------------------------------------------------------------------------------------|-------|----------|---|-------|-------|------|
| Contact: Craig Wallace Technical Director Eastern Division, Ph.: (239) 565-2338 Fax: (866) 449-8108 | | | | | | |
| 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 |
| Tennessee Valley Authority ^B Cumberland Station Cumberland, TN | 1,2 | 52153-02 | F | 37802 | 0.05 | 2.51 |
| Union Electric ^{B,D} Labadie Station Labadie, MO | 1, 2 | 52303-04 | C | 37801 | 3.30 | 2.76 |

| SUPPLIER: Holcim, 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 |
| Louisville Gas & Electric ^B Mill Creek Power Station Louisville, KY | 1,2,3,4 | 52503-05 | F | 37801 | -0.07 | 2.49 |
| 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 |

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| | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|---|-------|------|------|
| SUPPLIER: Holcim , 1263 Lakeview Drive, Romeoville, IL 60446 Contact Brian Borowski, Quality Assurance Manager, Ph.: (630) 243-4699 Fax: (630) 505-0330 | | | | | | |
| 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: Ozinga Cement , 19001 Old Lagrange Road, Mokena, IL 60445 Contact: Ivan Diaz, Vice President of Technical Services, Ph.: (388) 265-1531 | | | | | | |
| <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 | 51673-02 | F | 37802 | 0.16 | 2.46 |
| DTE Energy ^B Belle River Station East China, MI | 3 | 52603-06 | F | 37802 | 2.40 | 2.62 |
| Dynegy ^{B,D} Edwards Station Bartonville, IL | 2,3 | 51433-05 | C | 37801 | 3.27 | 2.71 |
| Carbon Sense, Class F. ^{B,D,F} Blend Sources: Newton Station Dallman Station | n/a | 1494-70 | F | 37805 | 1.32 | 2.60 |
| Luminant. ^{B,D} Martin Lake Station Tatum, TX | 3 | 51973-01 | C | 37801 | 4.10 | 2.68 |

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 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

| | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------|------------------------------|-----------------------------------------|
| <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 | | | | |
| <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 |

| | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------|------------------------------|-----------------------------------------|
| <u>PRODUCER/SUPPLIER:</u> Holcim, 2150 E. 130th 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> |
| Holcim ^B South Chicago Grinding Facility 215 E. 130th Street Chicago, IL 62633 | 544-12 | 120 | 37822 | 2.95 |
| Holcim ^B South Chicago Grinding Facility 215 E. 130th Street Chicago, IL 62633 | 544-12 | 100 | 37821 | 2.95 |

| | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------|------------------------------|-----------------------------------------|
| <u>PRODUCER/SUPPLIER:</u> 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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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 | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------|-----------------------------------------|
| <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> | |
| Euclid Chemical Co. | 614-01 | Eucon MSA | |
| Master Builders Solution | 1254-01 | Masterlife SF 100 | |
| Sika Corp. | 2231-01 | Sikacrete 950 DP | |
| GCP Applied Technologies | 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 | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------|-----------------------------------------|
| <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](#), [2024 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 5.1.1 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 5.1.2 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.