



BEIJING MININGSUN IMP AND EXP CO., LTD

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TECHNICAL DATA SHEET / TEST REPORT

Fly Ash - Grade F

Product Name	Fly Ash
Grade / Class	Grade F / Class F
Recommended Use	Supplementary cementitious material for concrete mixing and related construction material applications
Manufacturer / Supplier	Beijing Miningsun Imp And Exp Co., Ltd
Test Date	02 Mar 2026
Sample Quantity	8,500 g
Referenced Standard	GB/T1596-2017; testing and shipment inspection can be arranged according to ASTM C618 requirements upon request
SDS Reference	ICTA GHS SDS Report-S260305103E, Creation / Revision Date: 2026/03/05, Standard: UN GHS (9th Revised Edition)

1. Product Description

Fly Ash (Grade F) is a fine powder supplementary cementitious material. According to the SDS, the product is supplied as a brown grey powder with weak odor, is non-flammable, and is intended for use as a building material. The product is not classified as dangerous under GHS based on the SDS information.

2. Technical Requirements and Measured Values

No.	Inspection Item	Technical Requirement	Measured Value	Referenced Standard
1	Fineness (45 µm sieve residue), %	≤ 30	26.3	GB/T1596-2017
2	Loss on Ignition (LOI), %	≤ 8.0	1.5	GB/T1596-2017
3	Moisture Content Ratio, %	≤ 1.0	0.18	GB/T1596-2017
4	Sulfur Trioxide (SO ₃), %	≤ 3.0	0.8	GB/T1596-2017
5	Water Requirement Ratio, %	≤ 105	95	GB/T1596-2017
6	Free Calcium Oxide (f-CaO), %	≤ 1.0	0.38	GB/T1596-2017
7	SiO ₂ + Al ₂ O ₃ + Fe ₂ O ₃ (Total Mass Fraction), %	≥ 70.0	72.5	GB/T1596-2017
8	Density, g/cm ³	≤ 2.6	2.5	GB/T1596-2017
9	Strength Activity Index, %	≥ 70.0	72	GB/T1596-2017
10	Soundness (Expansion)	≤ 5.0	1.6	GB/T1596-2017

3. Chemical Composition Information from SDS

Component	CAS No.	Content, wt%
Silicon dioxide	60676-86-0	49.05
Aluminum oxide	1344-28-1	22.48
Iron(III) oxide	1309-37-1	5.95
Calcium oxide	1305-78-8	9.36
Magnesium oxide	1309-48-4	5.41

4. Physical Properties and Handling Information

Appearance	Brown grey powder
Odor	Weak odor
Flammability	Non-flammable
Solubility	Not applicable



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Storage	Store in a cool, ventilated warehouse. Keep separate from oxidants, reducing agents and halogens.
Handling	Ensure full ventilation. Wear dust masks and safety glasses. Keep away from heat/fire.
Transport	UN No.: Not dangerous; IMDG Code: Not subject to IMO IMDG Code; Marine Pollutant: No

5. Inspection Conclusion

Conclusion: Based on the COA test results, this batch of Fly Ash complies with the technical requirements for Grade F fly ash used in concrete mixing as specified in GB/T1596-2017.

6. Notes

- This document is prepared based on the company SDS and COA provided for Fly Ash Grade F.
- The values above are representative of the referenced sample/batch and should not be interpreted as a guarantee for every shipment without batch-specific testing.
- For export shipments, pre-shipment SGS/BV or other third-party inspection can be arranged according to contract requirements.
- ASTM C618-related testing can be arranged upon request where required by the buyer or project specification.

Prepared by: Beijing Miningsun Imp And Exp Co., Ltd

Date: 2026/03/05



Authorized Signature / Stamp: