



BEIJING MININGSUN IMP AND EXP CO., LTD

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CERTIFICATE OF ANALYSIS

Manufacturer	Beijing Miningsun Imp And Exp Co.,Ltd
Name of products	Fly Ash (Grade F)
Date of test	02 Mar 2026
Quantity of sample	8500g

No.	Inspection Items	Technical Requirements	Measured Value	Referenced Standard
1	Fineness (45 μ m 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 (%)	≥ 70.00	72	GB/T1596-2017
10	Soundness (Expansion)	≤ 5.0	1.6	GB/T1596-2017

Inspection Conclusion

Upon inspection, all indicators of this batch of fly ash comply with the technical requirements for **Grade F Fly Ash** used in concrete mixing as specified in the **GB/T1596-2017** execution standard.

Test person: Li ping

Agreement: Changfu Li

