



BEIJING MININGSUN IMP AND EXP CO., LTD

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CERTIFICATE OF ANALYSIS

Bentonite — Drilling Grade (Oil Well / API Grade)

Sample No.: 2026-0074 • Report Ref.: DS2026-19

1. PRODUCT & SHIPMENT INFORMATION

Supplier	Beijing Miningsun Imp and Exp Co., Ltd
Product Name	Bentonite — Drilling Grade (Oil Well / API Grade)
Sample No.	2026-0074
Sample State	Light brown solid powder
Sample Weight	300 g
Sample Submission Date	13 January 2026
Inspection Date	14–15 January 2026
Governing Standard	GB/T 5005-2010 (Drilling Fluid Materials Specification)
Inspection Type	Third-Party Commissioned Inspection
Testing Laboratory	Quality Supervision Testing Center of Oil Well Cement & Additives for Petroleum Industry / China National Petroleum Corporation
Overall Conclusion	All parameters comply with GB/T 5005-2010 Drilling Grade Bentonite requirements — QUALIFIED

2. LABORATORY TEST RESULTS

Test Parameter	Specification (GB/T 5005-2010)	Result	Test Method	Conclusion
Viscometer Reading (Φ600, 600 r/min)	≥30	34	GB/T 5005-2010	PASS
Yield Point / Plastic Viscosity Ratio (YP/PV, Pa/(mPa·s))	≤1.5	0.7	GB/T 5005-2010	PASS
Fluid Loss (API Filter Press, mL)	≤15.0	13.6	GB/T 5005-2010	PASS

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Residue on 75 µm Sieve (Mass Fraction, %)	≤4.0	1.1	GB/T 5005-2010	PASS
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Overall Result: ALL PARAMETERS PASSED — Drilling Grade Bentonite: QUALIFIED per GB/T 5005-2010

3. PRODUCT DESCRIPTION & TYPICAL APPLICATIONS

This bentonite is a sodium-activated montmorillonite clay processed to drilling grade specification. All test parameters have been independently verified by the Quality Supervision Testing Center of Oil Well Cement & Additives for Petroleum Industry (CNPC), report No. DS2026-19, and fully comply with GB/T 5005-2010 requirements for drilling grade bentonite.

Typical Applications:

Oil & Gas Well Drilling	Water-based drilling fluids for onshore and offshore oil and gas wells
Horizontal Directional Drilling (HDD)	Pilot bore and reaming fluid in utility, pipeline, and fibre-optic crossings
Trenchless Civil Engineering	Microtunnelling, pipe jacking, and slurry shield TBM operations
Geotechnical Drilling	Borehole stability and cuttings return in site investigation
Water Well Drilling	Drilling fluid and annular grouting applications

4. QUALITY ASSURANCE & EXPORT DOCUMENTATION

QC Signatory	Beijing Miningsun Imp and Exp Co., Ltd — Quality Control
Third-Party Inspection	CNPC Quality Supervision Testing Center — Report No. DS2026-19
Testing Body Accreditation	CMA Accreditation No. 220021240528
Documents Available	COA (this document), Third-Party Inspection Report (DS2026-19), MTC, SGS/BV inspection on request
Packaging Available	25 kg PP bags 500 kg / 1,000 kg jumbo bags
Export Port	FOB Tianjin / Qingdao
Trade Terms	FOB, CFR, CIF — all available
Payment Terms	T/T L/C at sight



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Disclaimer

The results reported in this Certificate of Analysis represent the specific production lot identified above and are issued by Beijing Miningsun Imp and Exp Co., Ltd. Beijing Miningsun reserves the right to provide updated third-party (SGS/BV) verification prior to shipment upon buyer request. Data provided for reference only; buyers are responsible for verifying suitability for their specific application.

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