



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (COA)

Product Information

Product Name Bentonite
Product Number: BEN-20260205
Batch Number BEN-SH2026020501
Brand SIGALD
CAS Number 1302-78-9
MDL Number MFCD00131693
Formula $\text{Al}_2\text{O}_3 \cdot 4\text{SiO}_2 \cdot \text{H}_2\text{O}$ (Average empirical formula)
Formula Weight Variable (380-400 g/mol)
Quality Release Date 05 FEB 2026

Test	Specification (Industry Standard)	Result	Unit	Test Method
Appearance (Color)	Light gray to off-white	Light gray	-	Visual Inspection
Appearance (Form)	Powder	Powder	-	Visual Inspection
Swelling Capacity (2h)	≥ 10 mL/g	12.5 mL/g	mL/g	Gravimetric Method
Montmorillonite Content	$\geq 70.0\%$	75.3%	%	X-Ray Diffraction (XRD)
Moisture Content	$\leq 10.0\%$	7.8%	%	Karl Fischer Titration
pH Value (5% aqueous suspension, 25°C)	6.0-9.0	7.5	-	Digital pH Meter
Heavy Metals (Pb)	≤ 5 ppm	1.3 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 2 ppm	0.4 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Iron (Fe_2O_3)	$\leq 5.0\%$	3.2%	%	Spectrophotometry
Insoluble Matter in Water	$\leq 5.0\%$	3.1%	%	Gravimetric Method

Certification This batch of product has been tested in accordance with industrial standards for bentonite and meets all specified requirements. It is qualified for use.

Issue Date: 05 FEB 2026