Basekim
Chemical Production Co.Ltd

BENTONITE – FEED GRADE(TDS)

Product: Bentonite Feed Grade
Grade: Animal Feed Grade
Form: Fine Powder
Main Mineral: Montmorillonite

PRODUCT DESCRIPTION

High-quality **Feed Grade Bentonite**, naturally rich in montmorillonite and processed to achieve controlled particle size, moisture, adsorption characteristics and mineral purity. Suitable for animal feed, livestock and poultry feed formulations, pellet binding and technological feed applications.

PHYSICAL & MINERALOGICAL ANALYSIS

Parameter	Unit	Specification	Typical Result*	Test Method
Montmorillonite Content	%	Min. 75.0	**86.4**	XRD
Moisture	%	Max. 10.0	**7.2**	Oven Drying
pH (10% Suspension)	—	8.0 – 10.5	**9.1**	Potentiometric
Bulk Density	g/cm³	0.70 – 1.00	**0.82**	Gravimetric
Passing 200 Mesh	%	Min. 95.0	**98.1**	Sieve Analysis
CEC	meq/100 g	Min. 60	**82**	CEC Method
Water Absorption	%	Min. 150	**195**	Gravimetric
Swelling Capacity	mL/2 g	Min. 15	**22**	Volumetric
Foreign Matter	%	Max. 0.50	**0.12**	Gravimetric

CHEMICAL ANALYSIS

Parameter	Formula	Unit	Typical Result*	Test Method
Silicon Dioxide	SiO_2	%	**61.8**	XRF
Aluminium Oxide	Al_2O_3	%	**16.2**	XRF
Iron Oxide	Fe_2O_3	%	**4.1**	XRF
Magnesium Oxide	MgO	%	**2.6**	XRF
Calcium Oxide	CaO	%	**2.4**	XRF
Sodium Oxide	Na_2O	%	**2.1**	XRF
Potassium Oxide	K_2O	%	**1.3**	XRF
Titanium Dioxide	TiO_2	%	**0.48**	XRF
Loss on Ignition	LOI	%	**8.2**	Gravimetric

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HEAVY METALS ANALYSIS

Parameter	Unit	Specification	Typical Result*	Test Method
Lead (Pb)	mg/kg	Max. 15.0	**6.2**	ICP-MS
Arsenic (As)	mg/kg	Max. 10.0	**3.1**	ICP-MS
Cadmium (Cd)	mg/kg	Max. 2.0	**0.42**	ICP-MS
Mercury (Hg)	mg/kg	Max. 0.10	**<0.02**	ICP-MS

MICROBIOLOGICAL ANALYSIS

Parameter	Specification	Typical Result*
Salmonella spp.	Absent / 25 g	**Absent**
E. coli	Max. 100 CFU/g	**<10 CFU/g**
Total Aerobic Count	Max. 1 × 10^5 CFU/g	**2.4 × 10^3 CFU/g**
Yeast & Mold	Max. 1 × 10^3 CFU/g	**<100 CFU/g**

FUNCTIONAL PROPERTIES

Property	Typical Result*
Montmorillonite	**86.4%**
CEC	**82 meq/100 g**
Water Absorption	**195%**
Swelling Capacity	**22 mL/2 g**
Fineness (200 Mesh)	**98.1% Passing**
Moisture	**7.2%**
pH	**9.1**

APPLICATION

Suitable for use in:

Cattle Feed • Dairy Cattle Feed • Sheep & Goat Feed • Poultry Feed • Compound Feed • Feed Premixes • Pellet Feed

Typical technological applications include pellet binding, anti-caking, carrier applications and feed processing. Mycotoxin-binding claims should be supported by product-specific efficacy testing.

INDICATIVE INCLUSION RATE

Application	Typical Addition
Feed Technological Application	1 – 5 kg/MT
Pellet Binding	5 – 20 kg/MT
Specific Adsorption Application	According to validated product recommendation

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PACKAGING

25 kg Bags | 50 kg Bags | 1 MT Jumbo Bags

STORAGE

Store in a dry, covered and well-ventilated area. Protect from moisture and contamination.

Shelf Life: 24 Months

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