PRODUCT INFORMATION

EARTHING-GRADE SODIUM BENTONITE

Product Name: EARTHING-GRADE SODIUM BENTONITE	**Description:** Earthing-grade bentonite is a specially processed sodium montmorillonite clay designed as a **Ground Enhancement Material** (GEM) for electrical earthing systems. It offers very low electrical resistivity, high moisture retention, and long-term stability, ensuring consistent grounding performance in various soil conditions. This grade is engineered to meet **IEC** 62561-7 and relevant grounding standards, making it ideal for power transmission systems, substations, lightning protection, and telecommunications. **Synonyms:** Ground Enhancement Bentonite, Electrical Grounding Clay
Appearance: Fine powder or granules	
Formula (Approximate): $Al_2H_2Na_2O_{13}Si_4$ (approx.)	**CAS Number:** 1302-78-9
EC Number: 215-108-5	**Packaging:** 5kg, 10kg, or as requested
Ordering code: 402	

Physical Properties

Property	Value	Standard
pH (25˚C)	8 - 10	ASTM D4972
Electrical resistivity (wet)	≤ 2 Ω·m	IEC62561-7
Color	Light Gray to Beige	Visual
Odor	Odorless	-
Microbial contamination	Absent	ISO4833
Montmorillonite	≥ 75%	XRD Analysis
Particle size	≥ 90% passing 200 mesh	ASTM C136
Type	Natural sodium bentonite	-
Moisture	Max 12%	ASTM D2216
Swelling capacity	> 600 %	Internal Method

IMPORTANT NOTES

- **Storage temperature**: Below +30°C.performance
- **Health Hazards**: Non-toxic, but prolonged inhalation of dust may cause respiratory irritation.
- **Precautionary Measures**: Use a protective mask, gloves, and safety glasses when handling.
- **Storage Conditions**: Store in a dry, cool, and well-ventilated area, away from moisture and acidic substances.
- **Application Guidance**: For optimal performance, mix with water to form a slurry before pouring into earthing pits.

Chemical analysis

SiO_2	50 - 60%
Al_2O_3	15 - 20%
Fe_2O_3	2 - 5%
CaO	1 - 4%
LOI	8 - 12%
Na_2O/K_2O	2 - 5%

The information and data made here in are believed to be accurate. However, considering that production may come from new mineral veins or different mines, if a more detailed analysis or a laboratory certificate is required, please specify it at the time of contract signing.

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