



## TECHNICAL DATA SHEET (TDS)



<b>1. Product Description</b>	
Product Name:	Bentonite Clay
Synonyms:	Montmorillonite Clay / Montmorillonite Desiccant / Clay Desiccant
Mined from the mine:	Ningcheng Tianhong Mining Industry Co., Ltd. Tianhong Bentonite Mine
Sales Company:	Shanghai Stardust International Trade Co., Ltd
Item No of Product:	BC025040185
Company Address:	Room A1, 6th floor, Focus Building, 1215 Zhongyi Road, Minhang District, Shanghai, China
Contact:	Tel: +86-21-64025813 Fax: +86-21-64307107 Website: www.shstardust.com Email: ralfzhu@shstardust.com
<b>2. Prodst Benefits</b>	
<p>Based on bentonite's special qualities like the property of Swelling, cohesiveness, adsorption, catalysis, thixotropy, suspension, and cation exchange, it has been widely used in different industries. Actually It has been put into use in over 100 departments in the 24 fields of industrial and agricultural production and it has been made into over 300 kinds of production, this is why people call it 'omnipotent clay'.</p> <p>All the montmorillonite-related products of our company are made with the best quality bentonite, which has over 95% montmorillonite content. This makes our products have excellent function like moisture absorption, static dehumidification, deodorizing, and advantage like high adsorption rate and good absorptive capability.</p> <p>Montmorillonite is non-toxic, tasteless, non-corrosive and no environmental pollution, and it does not contain any additives or calcium chloride. It is a new type of environmental protection mineral which is 100% degradable and can be reused if it doesn't degenerate in low-temperature environment.</p>	
<b>3. Main Application</b>	
Main Application:	<p>Widely used in oil seals(gas-sealed products can not be used), such as: dry air storage of optical instruments, electronic products, medical care, food packaging, and military products and civil products.</p> <p>Widely used in food, medicine, electronic products, military products, container shipping.</p>
Montmorillonite Application:	Coating Auxiliary Agents, Electronics Chemicals, Leather Auxiliary Agents, Paper Chemicals, Plastic Auxiliary Agents, Rubber Auxiliary Agents, Surfactants, Textile Auxiliary Agents, Water Treatment Chemicals

Montmorillonite desiccant Application:	<p>Textiles: shoes, shirts, suits, cashmere sweaters, sweaters, stuffed toys</p> <p>Optical equipment: microscopes, photographic equipment, optical lenses, lens, binoculars</p> <p>Some electronic products</p> <p>Instruments: piano, violin, accordion</p> <p>Container transport container: tin cans exports, seeds, food grain exports</p> <p>Warehouse with good sealing performance: civilian cabinet, storage room</p> <p>Large set of wooden furniture, sets of electrical equipment</p> <p>BAGS: small leather goods, handbags, leather gloves, travel bags, hats</p> <p>Motor: small motor, accessories</p>
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#### 4. Chemical formula

Chemical formula of Bentonite:	$Al_2O_3 \cdot 4(SiO_2) \cdot H_2O$
Molecular Structural Formula of Bentonite:	$  \begin{array}{c}  O_2Si_2O \quad O_2Si_2O \\    \quad   \\  O_2Al-O-Al_2O \quad H_2O \\    \quad   \\  O_2Si_2O \quad O_2Si_2O  \end{array}  $
Chemical formula of Montmorillonite's:	$(Al_2, Mg_3)[Si_4O_{10}][OH]_2 \cdot nH_2O$

#### 5. Chemical Composition List

Na <sub>2</sub> O: 0.49%	CaO: 2.38%	
MgO: 4.02%	TiO <sub>2</sub> : 0.40%	
Al <sub>2</sub> O <sub>3</sub> : 14.05%	MnO: 0.10%	
SiO <sub>2</sub> : 62.98%	Fe <sub>2</sub> O <sub>3</sub> : 4.21%	
P <sub>2</sub> O <sub>5</sub> : 0.07%	FeO: 0.13%	
K <sub>2</sub> O: 1.07%	CO <sub>2</sub> : 0.09%	

#### 6. Package information

Packaging specification:	25kg/bag or 1000kg/bag
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25kg/bag Packing instruction:	one woven bag, inside double PE bags for per package container loading without pallet 1000bags total 25tons for 20' FCL
1000kg/bag Packing instruction:	one woven bag, inside double PE bags for per package container loading with 1 pallet per big bag 10 big bags total 20tons for 20' FCL
<b>7. Other information</b>	
Prepared by:	Yu Yaochun / Translator: Ralf Zhu
Date of issue:	2017/9/18
Version:	Ver. 2.0
Changes different from previous version:	The first version's language is English&Chinese.
Other information:	This product is actually produced by Tianhong Mining Industry Co., Ltd.

Shanghai Stardust International Trade Co., Ltd

