

Committed to be leader of industry, and carry out the international strategic layout, uphold the integrity, quality, innovation, sharing the concept, we sincerely welcome customers at home and abroad for cooperation.



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**TIANDONG HAORUN NEW MATERIAL TECHNOLOGY CO.,LTD.**

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[www.gxhaorun.com](http://www.gxhaorun.com)

[www.activatedclay.com](http://www.activatedclay.com)



**STRONGER**  
**PRODUCT BROCHURE**

TIANDONG HAORUN NEW MATERIAL TECHNOLOGY CO.,LTD.




# COMPANY PROFILE

Founded in 2009, Tiandong Haorun New Material Technology Co.,Ltd. is located in No.2 Petrochemical Industrial Park, Tiandong County, Guangxi, China. We specialize in production and selling of activated clay. We have passed certifications like Food Safety Management System, Hazard Analysis and Critical Control point (HACCP) system, Environmental Management System, Quality Management System and Occupational Health and Safety Management System etc. We hold 22 inventions &practical patents, and are awarded as a national high-tech company. The investment for first phase of our production base is US\$28 million, covering an area of about 60,000 square meters. We have an activated clay processing plant with an annual output of 60,000 tons, and a factory with an annual output of 100,000 tons of metallurgical pellets, castings, drilling mud and other products. We wholly own the mining excession of two


bentonite mines of Baise Baikuang Bahuai Mining Co.,Ltd. Currently We serve for hundreds of companies including COFCO, Yihai Kerry Arawana Holdings Co,Ltd., Huiyu Cereals and Oils, Bohi Agricultural, Liuzhou Steel Group and Zhejiang Red Dragonfly Footwear Co Ltd etc.

We adhere to customer first, continuous innovation, powerful enterprises of science and technology, provide various types of catalyst products and customized solutions, and deepen the expansion of the international market. Adhering to the "people-oriented, science and technology first"business philosophy and work hand in hand with people of insight from all walks of life in the industry to create brilliance together. We always serve you wholeheartedly with high quality products, and look forward to promoting our common development through cooperation with you.







**2009**  
Founded in



**\$28 million**  
The first phase investment



**60000 m<sup>2</sup>**  
Covers an area of about





**1**  
LARGE-SCALE ACTIVATED  
CLAY PRODUCTION BASE

**2**  
ACTIVATED CLAY/BENTONITE  
MINING AND FURTHER  
PROCESSING

**3**  
HIGH-TECH ENTERPRISE

01/02



QUALITY & ASSURANCE



Our technicians check the equipment carefully



Domestic leading technology filter press



Our production equipment



Pursuit excellence in testing



Our packaging workshop



Our Mine production



Our Lab



Our production workshop



Our factory area 1



Our factory area 2



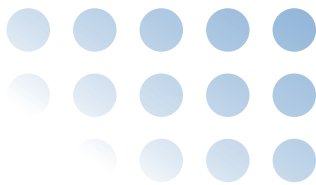


Activated Clay

Activated clay is made of clay (mainly bentonite)as raw material, processed by inorganic acidification or salt or other methods, and then washed by water and dried. The appearance is milky powder(or gray or light pink), odorless, tasteless, non-toxic,which has strong adsorption performance, and can adsorb colored substances and organic substances.



TECHNICAL SPECIFICATIONS



National Standard of the  
People's Republic of China  
GB 22571-2011

Index name	National Standard	10A	117A	223C	232C
Colour	White/Gray/ Light pink	White	White	Light pink	Light pink
Status	powder	powder	powder	powder	powder
Decolorization rate(%) ≥	/	89.64	84.00	76.37	70.00
DOBI(%) ≥	/	104.23	97.67	88.37	81.40
Surface Area, m <sup>2</sup> /g	≥130	180	180	180	180
Free Acid (H2SO4),%	≤0.3	0.08	0.08	0.08	0.08
Free Moisture, %	≤12	7.6	7.6	7.6	7.6
Particle Size (Through 0.075mm mesh), %	≥ 90	91	91	91	91
Filtration rate	Passed	Passed	Passed	Passed	Passed
Bulk Density,g/ml	0.55±0.1	0.58	0.58	0.58	0.58
PH (50g/L suspension liquid)	2.2~4.8	3.8	3.8	3.8	3.8
Heavy Metal (as Pb) , mg/kg	≤40	<40	<40	<40	<40
As,mg/kg	≤3	<3	<3	<3	<3

Tips:1.The index rate of DOBI(Deterioration of Bleachability Index)is based on the comparison of standard samples sent to customers, different customers have different calibration,we take 100% soybean oil decolorization,Yihai Kerry sample as reference.  
2.According to customer requirements,indicators and technical solutions can be customized.

Products Application

- ▶ Food-grade activated clay is used for decolorizing and refining edible grade animal and vegetable oils,including soybean oil, canola oil,peanut oil,palm oil,coconut oil and butter,lard,fish oil and other animal fats.It can also be used as a filter aid for drinks,beverages,etc.
- ▶ Industrial-grade activated clay is mainly used in decolorization refining and waste oil regeneration in petroleum processing such as base oil, diesel, kerosene, transformer oil,lubricating oil,petrolatum,paraffin etc.
- ▶ Activated clay is used as a catalyst and catalytic carrier in the chemical industry,such as a carrier for insecticides, pesticides and fungicides,rubber and plastic fillers,desiccants and filters,and an adsorbent for radioactive waste.
- ▶ Activated clay is widely used as an adsorption treatment agent in the environmental protection industry, such as an absorbent and flocculant in water purification and sewage treatment.

User's Guidance

- ▶ When using, after heating the material to a certain temperature under stirring,put in a sufficient amount of activated clay.After stirring for a certain period of time,the purpose of decolorizing and refining can be achieved.It can be produced and used according to the customer's own production process.

Product Packaging

- ▶ 25Kg/package and 50kg/package,or according to customer's requirements.

COMPARISON OF SAMPLES  
PERFORMANCE INDEXES  
FROM DIFFERENT MANUFACTURERS

Serial number	Sample	Manufacturers	Decolorization rate(%)	DOBI(%)	Filtration rate	residual oil rate(%)
1	Activated Clay	STRONGER10A	89.64	104.23	2'26"	2.75%
2		STRONGER117A	84.00	97.67	2'33"	2.50%
3		STRONGER223C	76.37	88.37	2'37"	2.62%
4		STRONGER232C	70.00	81.40	2'40"	2.78%
5		Guangxi A	70.00	81.40	2'15"	2.50%
6		Guangxi B	85.82	99.79	4'06"	4.12%
7		Guangxi C	76.73	89.22	2'07"	2.88%
8		Guangxi D	73.28	84.93	1'31"	3.38%
9		Guangxi E	79.96	92.68	1'29"	3.88%
10		Sichuan A	83.45	97.03	2'05"	3.00%
11		Shandong A	57.27	66.59	3'08"	3.38%
12		Jiangxi A	86.54	100.63	2'26"	3.12%
13		Jiangxi B	70.40	81.59	2'59"	3.25%
14		Jiangxi C	78.54	91.32	2'16"	2.75%
15		Zhejiang A	75.82	88.16	2'23"	2.75%
16		Inner Mongolia A	86.64	100.42	2'15"	2.88%
17		Xinjiang A	80.18	93.23	2'19"	3.62%
18		Xinjiang B	80.00	93.02	2'19"	3.38%
19		abroad A	85.82	99.79	1'44"	2.12%
20		abroad B	76.36	88.79	1'52"	2.62%
21		abroad C	83.64	97.26	1'57"	2.75%
22	Attapulgate	Jiangsu A	62.45	72.38	2'41"	2.62%
23		Jiangsu B	41.64	48.42	2'53"	2.95%
24		Jiangsu C	30.91	35.94	2'34"	3.00%

Tips:  
1.Under the same experimental conditions, compared the residual oil rates of various companies and calculated as follows:  
Residual oil percentage %=(decolorized oil weight/oil weight before decolorization\*100.  
2.The index rate of DOBI(Deterioration of Bleachability index) is based on the comparison of standard samples sent to customers, different customers have different calibration,we take 100%soybean oil decolorization,Yihai Kerry sample as reference.

COMPARISON OF DECOLORIZATION  
EFFECT OF DIFFERENT ADDITIVE  
AMOUNTS OF DIFFERENT MODELS

Serial Number	Sample Addition(g)	DOBI(%)			
		10A	117A	223C	232C
1	0.8	104.23	97.67	88.37	81.4
2	0.7	101.69	94.29	85.2	74.84
3	0.6	96.82	91.96	78.65	69.77
4	0.5	91.96	80.34	69.56	61.31
5	0.4	83.93	71.03	60.64	54.55
6	0.3	75.05	59.93	53.91	48.2

