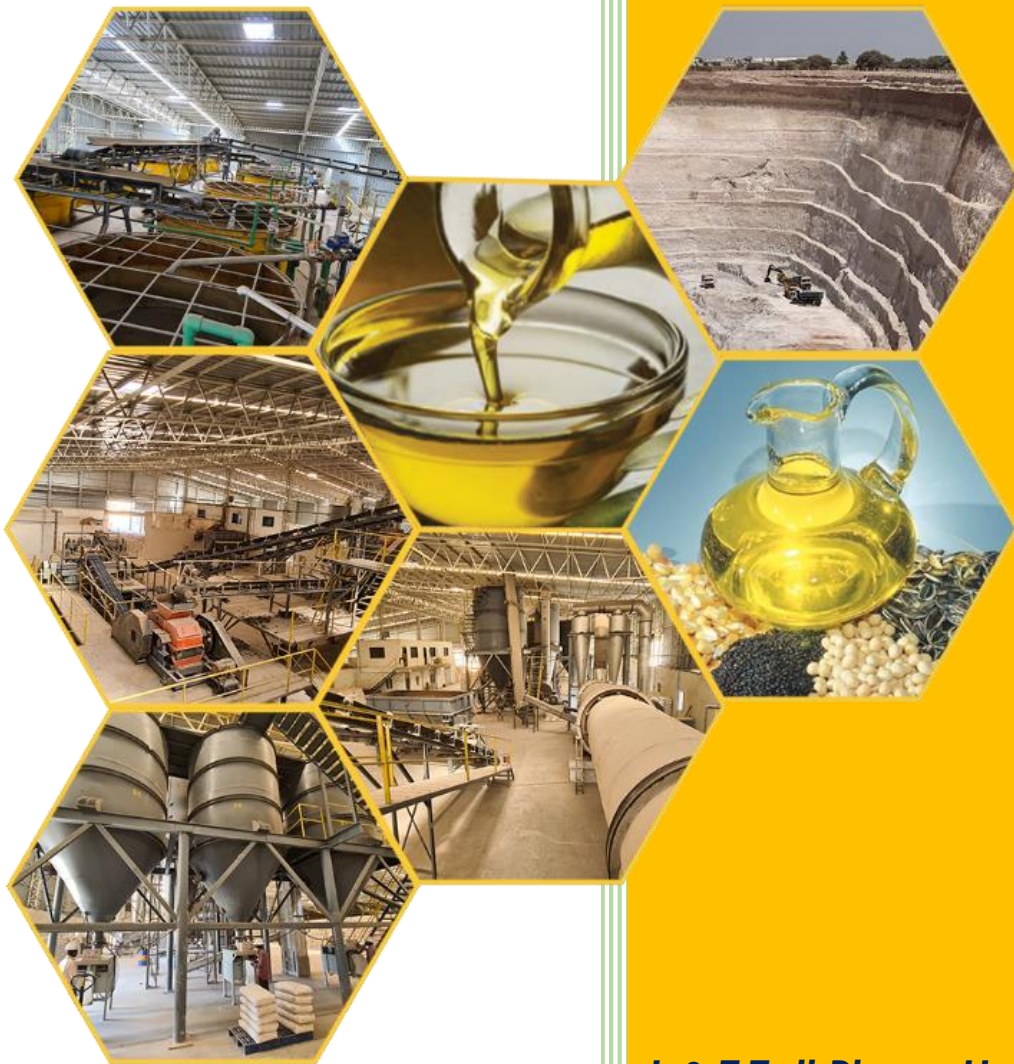




BENTON

— Activated Bleaching Earth —

Activated Bleaching Earth



FILTRATION



ABSORBENTS



FUNCTIONAL
ADDITIVES &
CATALYSTS



CATALYSTS



ADDITIVES

L & T Toll Plaza, Halvad-
Maliya Highway,
Rohishala, Maliya,
Morbi -363 630.

+91 960150 51004

bentonbleachchem@gmail.com



PROFILE:

BENTON BLEACH CHEM PVT LTD. is an activated bleaching earth production company located on the outskirts of Morbi, an industrial juggernaut of Gujarat state of India. The company is floated and managed by a group of professional entrepreneurs with a deep vision of coming needs and requirements of ever growing Indian markets.

Started in the year 2019 and commenced operations in 2020, the company is established on a land of 4 lac sq. ft. with construction of 80,000. With strategically located to deliver products all across India as well as nearby ports of Mudra and Kendal, the company hold competitive edge of logistics.

Housing state of the art technology with all the advanced machinery and equipment, the founders can conservatively say they are best in the class in performance and promise that their inherent strengths help their customers enhance their bottom lines.

Operated by experts and professionals of the industry, the top management and the tactical managerial team have all gelled into a cohesive group on a mission with laser sharp focus and broad vision of the future. With well-established behavioral culture and go getter attitude the team works synergistically to outperform their competition as well as their last achievements.

A well-equipped R& D center with testing lab are the core components of any chemical plant. The people and equipment in Benton boast of best available technology people mix in these departments. The customers can rest assured they will experience excellence when using Benton products.

Vision:

To be a competitive leader in activated bleaching earth supply globally and locally by achieving scientific excellence in research, manufacturing and delivery.

MISSION:

To develop, manufacture and distribute high performing activated bleaching earth through consistent commitment towards market needs, global standards and best business practices to enhance the lives of customers, suppliers and employees.

- + Manufacture products that meet market needs and global regulatory requirements.*
- + Analyse, research and develop better performing products consistently.*
- + Be responsible towards people and environment.*

VALUES

Customers: Focus, understand and best customer needs to help them attain competitive advantage in markets.

Employees: Recruit, orient and train people to retain them till retirement, enhancing their quality of life.

Innovation: a consistent never ending practice of creating new products and evolving efficient processes to sustain leadership position.

Integrity: In all aspects of business functioning, HOW WE DO IT matters. We put highest value on integrity and ethical practices.

FOUNDING TEAM / TOP MANAGEMENT:

An entrepreneur to the core, the directors have been instrumental in founding and running multiple businesses. From Paper based Laminates to chemicals, they have established sustainable enterprises that are operating profitably and hold a high respect in business community.

Leading a young and dynamic team, they understand the market and its needs in depth and has created a keen know how of how to best serve customers.

Middle management:

It is a mix of experience and youth going hand in hand to create a marvelous enterprise they would be proud of. Technocrats, researchers and marketing people form the core of middle management making sure operations of Benton are smooth and free flowing, keeping up with the promise of delivering better value to customer consistently.

Operatives:

Operatives in plant and on field are all qualified and trained specifically to perform their jobs with meticulous detail. They have got the right tools and equipment to carry out their work efficiently. Consistent training drives, implementation of quality management systems and improvements in processes help the manpower become a combined unit of high performance.

WHY THIS BUSINESS?

- + Edible oil consumption and hence the production is increasing consistently. (add validator)
- + More companies are starting and expanding oil production who will need bleaching earth.
- + The overall demand nationally (India) and globally has increased in the last decade. (add validator)
- + The business requires technical as well as commercial expertise to carry out, creating entry barriers.
- + Being capital intensive, there will be few players in the sector.
- + Government of India is promoting dependence on indigenous oil filtration for consumption.

WHY US?

- + Years of business experience in top team.
- + All businesses are large scale and successful.
- + Technical expertise of top management specifically in Wash clay.
- + Vision to drive growth and team to execute vision.
- + Network in India and abroad to grow exponentially
- + Capability to make strong strategic business decision and implement them.
- + Locational strategic advantage.
- + Trust of customers through existing businesses.
- + Best in class machinery employed for production.
- + Excellent quality control systems from raw material to delivery.
- + R & D Lab to enhance product performance.
- + Testing equipment to make processes reliable and efficient.

ABOUT GROUP / YOU WORK WITH A STRONG BUSINESS GROUP:

The top management has been a part of strong business groups in the region. Having established multiple businesses and networks, the group holds the right setup to grow and sustain business.

Some of the group companies.

Bell Laminates:

Bell, the sound of quality, is a ringing echo of trust, quality and ease of doing business. The company has established a nationwide network of distribution, and a production plant to boast of. Established in Morbi, it holds the largest capacity of paper based laminate production and supply in India.

Ocean Granite:

Ocean Granite is a respected name in floor tiles manufacturing and supply. With more than 20 years of experience in the field of floor tiles design and production, the company boasts of nationwide network and global presence.

World class machinery and experienced manpower run Ocean, helping the company gain trust of its consumers and channel partners. With large range of tiles having variety in sizes, colors, surface finish and appearance, the company promises to meet any demand.

Bell Multikraft:

Bell Multi Kraft is one of the Largest Manufacturer of Kraft Liner Board in Western India spread over 65000 sum located Near Morbi.

Equipped with advanced production line the company aims to deliver high quality Kraft liners to the world.

They always provide packaging manufacturers with competent technical support so that our customers will achieve high productivity and an excellent result.

Aton microns:

Aton Microns is a premier producer and supplier of high performance processed feldspar. With a capability for gigantic supplies and quality that the customers appreciate, the company services many sectors including ceramic industry, glass manufacturers, chemical companies, electrode manufacturers etc.

The technical expertise of manpower coupled with management and marketing prowess of top team has helped ATON gain a sustainable growth for itself and a name that commands trust and respect in its buyers and competitors alike. Quality being the mainstay of operations, the company has global footprints as well.

Manufacturing Process:

We manufacture Activated bleaching earth at our state of the art plant with the latest technology. The outcome of our advanced process is production of high performing wash clay with improved surface area.

Mined from high quality bentonite reserved in Gujarat, the selected bentonite lots are crushed to manageable lumps for further processing.



Granulation:

Crushed lumps are moved for granulating. Bentonite wet granules are converted from the lumps in granulation process. The quality is checked for batches ready for activation process.

Acid Activation:

The granulated wet granules are through activation process with acid. Activation and washing of clay takes place. The 10 hours of acid action of bentonite is flowed by washing of activated bentonite granules with water. Washing is a 12 hr. cycle that helps reduce acidity in output. The helps in better shelf life of vegetable oils. This activation process leaches out impurities and heavy metal while increasing the surface area of bentonite.





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Neutralisation:

Spent acid/water is neutralized with lime in neutralization plant. The neutralized water after filtration and RO is reused again. While gypsum produced in process is supplied to cement industry.

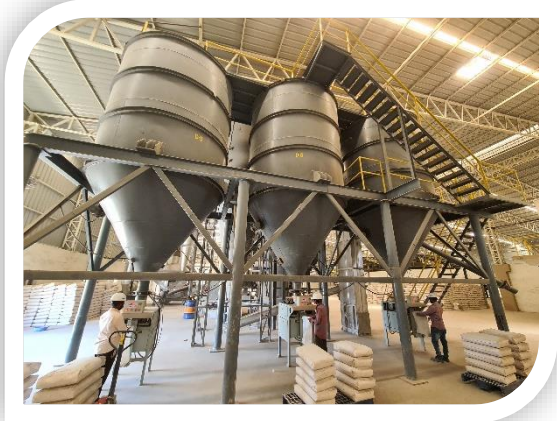
Drying:

The acid activated bentonite granules thus produced is very wet and not fit for further use. It is dried in high capacity driers to reduce moisture making them good enough for further processing and packing.



Milling and Packing:

Milling and Packing of dry activated bleaching earth is carried out. Packing is with Paper, Jumbo Bags or in Bulker trucks which are directly supplied to oil refineries the end users of BENTON wash clay.



PROPERTIES AND ADVANTAGES OF PRODUCTS:

Benton Bleaching Earth provides higher contact surface area with Neutralized oil, adsorption of coloring pigments like Chlorophyll, Carotens and Pheophytin is better. This results in requirement of lower dosages of Benton wash clays compared to others.

The higher adsorption capacity also empowers effective removal of gums (Phospholipids), Free Fatty Acids and Soap Content.

IMPACTFUL BENEFIT:

Better adsorption leads efficient adsorption reducing per liter bleaching costs.

Lower Oil Filtration time:

Particle size of the Earth needs to be a balance, not too fine, leading to choking of filters, not too large to be ineffective. We have mastered the art of finding the right size distribution increasing the speed of oil filtration.

Longer oil Filtration time is unproductive, shorter time, leads to poor press bleach effect and hence a meticulous balancing is what we provide by using best in class temperature filtration apparatus and control through right bleaching earth.

Lower Oil Retention:

Pore Diameter, Total Pore volume, surface area and wash burn equation are few of the many parameters that determine optimum pore diameter. BENTON's porosimetry expertise empowers lower oil retention in the process while not compromising on the throughput.

IMPACTFUL BENEFIT:

Releases more oil per cycle, promising better yields and hence profits/bottom lines for customer.

Optimum Moisture Content:

15% is the magic moisture content for excellent bleaching performance. At higher content, flow properties of wash clay starts to deteriorate, at lower values, the porosity reduces drastically. 10-12% is acceptable.

IMPACTFUL BENEFIT:

We specify Moisture content clearly so our customers know that we are supplying as we promised, keeping the bleaching earth powder free flowing.

Parameters	Benton Optimum 54	Benton Super 135	Benton Active 234
Bulk Density	0.6 to 0.65	0.55 to 0.65	0.60 to 0.70
Moisture@110 Deg c	15 MAX	15 MAX	15 MAX
PH. (5% suspension)	2.5 to 4.5 MAX	3.0 to 5.5 MAX	3.5 to 6.5 MAX
% H ₂ So ₄ .	0.4% MAX	0.4 % MAX	0.4 % MAX
Average particle size	22.28	22.28	22.28
Less than 5 microns	20% MAX	20 % MAX	20% MAX
Less than 90 microns	80% MIN	80 % MIN	80% MIN
BET surface area	300-320 ² /gm	270-300 ² /gm	250-280 ² /gm

Controlled Bulk Density:

To maintain best reproducible results, we employ specialized automatic state of the art equipment that assesses bulk density of activated bleaching earth powder, giving precise and accurate information for process quality control and management.

IMPACTFUL BENEFIT:

Have better control over in process quality and reduces rejections, thereby increasing higher outputs.

Controlled Residual Activity:

A customer is inclined to prefer high residual acidity for its better color removal properties, but this can result in formation of peroxides, free fatty acids and phosphatides in the oil, rendering it useless. Benton provides Controlled Residual activity in our wash clay.

IMPACTFUL BENEFIT:

Optimum controlled residual activity provides the required color removal while maintaining usability of oil.

3MCPD Reduction advantage:

3MCPD is believed to be carcinogenic at higher values in edible oils. Benton bleaching earth reduces 3MCPD drastically.

IMPACTFUL BENEFIT:

Bleach your oil with confidence of improving and protecting lives.

APPLICATIONS:

EDIBLE OIL PURIFICATION: Coconut oil, Palm oil, Soya oil, Sunflower oil, rice bran oil, cotton, seed oil etc.

INDUSTRIAL OIL REFINING: Engine oil, Mineral oil, Diesel fuel, Lube oil, Paraffin wax etc.

WASTE OIL REGENERATION: Waster engine oil, Used cooking oil, etc.

Major Equipment:

:: UV Visible Spectrophotometer

:: Lovibond Tintometer

:: Bulk Density Apparatus

:: PH Meter - HANNA

:: Infrared Moisture Balance

:: Filtration Unit

:: High Pressure Vacuum Pump

:: Water Bath

:: Oil Bath

:: Magnetic Stirrer



QUALITY:

:: Systems and Methods

“Quality is never a coincidence, its consistency depends on reliable system and accurate execution. With this understanding in mind, we have devised systems, procedures and practices that give us the innovative capability to strategically control and enhance quality of products, people and processes consistently.”

:: People:

We train people in three aspects. Job Specific training to carry out their jobs meticulously and adhere to set guidelines and rules. Attitudinal training fosters team spirit, positivity and ownership of ones roles. And lastly for retrospection, analyzing and suggesting changes in methods and systems.

The training is not limited to production only but is all pervasive and is provided to every person in all departments. After all people run processes, machines that in turn produce quality products and experiences for customers.

:: Products:

More of an outcome then a practice, training people and consistently updating processes helps to produce the best products. However, controlling raw material input parameters, checking quality in process at every stage and finally testing samples in our state of the art laboratory helps in trapping quality failures before dispatch.

Packing, loading and delivery are also carried out to make sure customers get products in specified and expected quality.

Certificates

The company believes that good certification procedures by credible third party increases our and customers' confidence in products and buyer experience.

We have the following certificates:





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בית דין צדק דק"ק לונדון והמדינה LONDON BETH DIN KASHRUT DIVISION LETTER OF CERTIFICATION

Benton Bleach-Chem India Private Limited
Near L And T Toll Plaza, Survey No.122 P2, Rohishala, Maliya, Morbi, Gujarat, India, 363630

The following products manufactured by the company named above are certified kosher with the following certification requirements.

ACTIVATED BLEACHING EARTH

Product	Status	Requires	UKD ID
BENTON ACTIVATED CARBON	Pareve	KLBD Logo	KLBD190227
BENTON ACTIVE 234	Pareve	KLBD Logo	KLBD931793
BENTON ACTIVE GRANULES	Pareve	KLBD Logo	KLBD584951
BENTON FULLER EARTH	Pareve	KLBD Logo	KLBD160035
BENTON OPTIMUM 54	Pareve	KLBD Logo	KLBD247861
BENTON SUPER 135	Pareve	KLBD Logo	KLBD603305
BENTON ULTRA 333	Pareve	KLBD Logo	KLBD471931

Effective: 04 March 2021
Expires: 03 March 2022

04 March 2021
Letter # 473071345

Powered by:

CORPORATE Kosher

RABBI JEREMY CONWAY
DIRECTOR

DAYAN MENACHEM GELLEY
ROSH BETH DIN

Note: Unauthorized use of the KLBD symbol is a violation of applicable food labeling statutes and copyright law.

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Benton has a fully functional laboratory with all the instruments and apparatus. It is manned by qualified professionals who have deep experience of chemicals and specifically bleaching earth quality control.

With the right tools and techniques the company can test raw material, in process clays and final products in house. The batch tracing and sample inventory are systematically managed to have a fool proof quality assurance system in



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