Kany Saz Jam Company (KSJ)

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Top producer of acid activated bentonite (Bleaching earth) in IRAN

www.kanysazejam.com

Kany Saz Jam Company (KSJ) is the only producer of acid activated Bentonite (bleaching earth) in Iran. Our factory's production capacity is about 30000 tons per year of various grades of acid activated Bentonite.

Trademark and logo:

Our registered trade mark is "Kaneh". Our logo is "k"

Packing and packaging:

the weight of each sack is 25 kg but it could be increased in bigger sack (up to 1000 kg) depending on your order. For preventing of humidity a layer of laminated has been used in all the sacks.

- ISO 22000: 2005 Certificate
- ISO 9001: 2008 Certificate
- ISO 18001:2007 Certificate
- ISO 14001:2015 Certificate
- HALAL Certificate
- Kosher Certificate
- Iran Ministry of Health and Education Certificate
- Approval certificate of PPM laboratory affiliated with the German Ohmi Institute
- Approval certificate of Karlshamn AB Institute laboratory in Sweden and Austria
- Approved by all domestic and foreign consumers of this product.

All types of products:

- KF Type: for refining all types of edible oils
(i.e. Soya, sunflower seed, cotton seed, canola, etc...)
- KS Type: for refining all types of mineral oils
(i.e. solid and liquid paraffin, Vaseline, wasted oil, etc...)
- K.F.D Type: in the preparation of pellet for the feeding of animals & poultry and aquatic.

Due to existence of very rich mines of Bentonite earth around the factory, and also the exclusive method of processing and purifying the raw material and the special way of production, all the products of this company are manufactured in very high quality and perfectly homogeneous.

KF Product

The KF Product is used in refining edible and vegetable oils

Types of KF:

Different types of KF, based on all general and economical specifications, is divided into two main sub-grades:

- Super grade, including KF1 and KF2
- Special grade

Application of Different types of KF

Super grade KF1 and KF2 have general uses, applied for all kinds of edible oils. For production of Canola oil, and cotton seed it is better to use KF1. For soya, corn and other edible oils KF2 is used.

Special grade: under the ordinary conditions KF1 and KF2 can meet every requirement of the consumer but sometimes because of low quality of raw oil (i.e. the oil production circumstances) or defects in the refinery line (i.e. trouble in washing soap and odorless, etc...) the manufacturer might expect special functions from the Bentonite. In this case the consumer should report the problem to the factory while specifying the case, to order a special type of Bentonite to be used. Obviously, eliminating the causes of such deficiencies should be placed in the priority of the order of the client

Chemical analysis of KF:

Average chemical analysis (based on the oxides of ingredients) of KF grades are as follows:

SiO2	65.96%	K2O	0.81 %
AL2O3	9.94 %	P2O5	0.05 %
Fe2O3	0.88 %	Mno	0.01 %
Cao	1.60 %	Tio2	0.08 %
Mgo	1.95 %	S	0.84 %
Na2O	0.31 %	L.O.I	17.52 %

The physical specification of KF:

- Color: white
- Appearance: powder
- Solubility: insoluble in water
- Medium Moisture: 10% (2h, 110c)
- PH: 3-4 (2% solution)
- Free acidity: less than 0.2 (as sulfuric acid)
- Density: 450 – 550 Gr/L
- Particle size: more than 90% pass through 200 mesh size.

Application benefits of KF:

The KF product's quality and its good effect on edible oils compete with high quality Bentonites in global market since it could obtain several domestic and well-known international quality Control standard certificates such as the German Ohmi and Swedish Karlshamn AB institute, etc....
All types of Kaneh products has below specifications:

- The highest power for absorption of chlorophyll
- The highest peroxide reducing power.
- The lowest "Anisidine" in bleached oil
- Minimum absorption of useful components of oils (tocopherols)
- The highest power for absorption of iron and copper
- The highest power for absorption of nickel in post bleach step in Hydrogenated oils
- Bentonite without Dioxin is one of the big advantage of this product
- The highest oxidative resistance in bleached oil
- The color of refined oil will not return.
- The highest power for absorption of remained phosphor in neutralization step.
- The highest power for absorption of remained soap in neutralization step.
- The highest filtration speed.
- The minimum absorption of oil.
- Less soil consumption under equal conditions.



KS Product

The KS product is generally used to refine mineral oil as well as some chemical substances.

Various types of KS

KS (grade), based on all general and economical specifications is divided into two main sub-grades:

- Super grade, including KS1, KS2, KS4, KS5, KS7, KS8, KS9
- Special grade

Application of Different types of KS

Basically refining Mineral and industrial oils and some chemical substances may be done in one or two or more steps with one or two kind of Bentonite as follows:

- KS1 and KS7 are used for refining recycled oil and gasoil.
- KS8 and KS9 are used for refining solid paraffin and one stage refining of liquid paraffin and Vaseline
- KS2 and KS5 are used for one stage refining liquid paraffin and Vaseline
- KS4 is used for refining soap production.

The special type: according to the consumer request for changing some specification of special type, we can produce and customize the product based on their request and our advice. Hence special grades will be produced.

Chemical analysis:

Average Chemical analysis (based on the oxide of ingredients) of KS grades are as follows:

SiO2	68.09%	K2O	0.71 %
AL2O3	9.78 %	P2O5	0.06 %
Fe2O3	0.84 %	Mno	0.01 %
Cao	1.15 %	Tio2	0.08 %
Mgo	1.82 %	S	0.72 %
Na2O	0.33 %	L.O.I	16.32%

Mineralogical analysis:

The main constituent of this product is composed of clay which main part of it composed of Montmorillonite. The other minerals are mostly silica and feldspars as well as tiny amount of plaster and lime.

Physical Specifications:

- Color: White – gray
- Appearance: Powder
- Solubility: insoluble in water
- Medium Moisture: 10% (2h,110c)
- PH: 3-3.5 (2% solution)
- Free acidity: less than 0.2 as sulfuric acid
- Special weight: 450 – 600 gr/L
- Particle size: more than 90% pass through 200 mesh size

Effects of KS

Compared with the imported ones this type of Bentonite has the highest quality:

- The highest power for absorption of small & suspended particles
- The highest power for bleaching (discoloring)
- The highest power for reduction and omitting P.A.H and sulfur compounds
- The highest power for absorption of heavy or poisonous metals
- The color will not return
- High filtration speed
- Minimum absorption of oil

Optimized condition for bleaching by KS:

Operational conditions which must be consider for applying this Bentonite are different since the various oils refining process are different but in general you must observe the following factors according to the nature of your raw material:

- Temperature during the process of Bleaching
- Contact time duration of Bentonite with oil
- Mixed way of bleaching earth and oil together
- The amount of consumed acid during the entire filtering operation
- The amount of consumed lime during the entire filtering operation

K.F.D Product

The K.F.D product is used to prepare pellets for feeding animals, poultry and aquatic.

Chemical analysis:

SiO2	67.6%	K2O	0.78 %
AL2O3	9.8 %	P2O5	0.05 %
Fe2O3	0.81%	Mno	0.01 %
Cao	1.56%	Tio2	0.08 %
Mgo	1.8 %	S	0.78 %
Na2O	0.34%	L.O.I	15.90%

Mineralogical analysis:

By processing operation of mineral with wet method and Thermal operation, while increasing the basic mineral content of Montmorillonite (as the main ingredient and the origin of all properties for pellet production), it will also include all the health conditions for consumption.

Physical Specifications:

- Color: White – gray
- Appearance: Powder
- Solubility: insoluble in water
- Medium Moisture: 10% (2h,110c)
- PH: 3-7 (2% solution) – the amount depending on processing amount
- Density: 400 – 800 Gr/L
- Particle size: more than 90% pass through 200 mesh size

Effects of K.F.D

Increase pellet strength (pellet binder):
One of the popular, economical and harmless available pellet binders is Bentonite type which is used in factories that prepare pellet because its immediate and high absorption of water and plasticity of Bentonite, they can be high quality and strength pellet.

Absorption of fungal toxins especially aflatoxins (Toxin Binder):
Mycotoxins of processed bentonite and specially aflatoxins in the feed can be bounded very well and its absorption in digestive system of animals will be reduced. In this way, the effect of aflatoxins on the function and the role of the liver will have reduced and also negative effects of fungal toxins on animal growth will reduced too.

Increasing of digestion and absorption of foodstuffs:
Processed bentonite can decrease foodstuffs movement speed in length of digestive system and then foodstuffs will have more time for digestion and absorption.

Reducing coefficient convers and increasing production efficiency:
Processed bentonite with "Mold Inhibitor" specification and also to ability to absorb fungal toxins and heavy metal can increase production efficiency.

Lubrication:
Processed bentonite beside water will take a gelatinous and oily form. This form by using feed will cause smooth and easier movement during production process and then it will prevent from corrosion and damage of parts and machines which are in touch with feed.

Ammonia controlling and decreasing environment humidity:
Processed bentonite can cause environment drying because of high humidity absorption nature and during disorder in Coccidiosis cycle, it will decrease ammonia gas expanding in the environment. So the consequences of respiratory diseases such as flu, Newcastle, Bronchitis will be reduced. Since most of the farms are in the neighborhood of the residential areas, the processed bentonite can help for decreasing unpleasant smell of dung in these areas.



Contact us

Consumers of our products can always be in contact with us:

- For placing order of different or specific type of bleaching earth according to type of their oil or their production conditions
- For solving any potential problem during the production process
- For any necessary consulting
- If you have any suggestions or criticize about our products
- If you have request for any certificates or scientific and laboratory documents and etc.
- for visiting our factory and finding out our scientific and operation capabilities.

We try our best to accomplish these tasks the minimum time with the help of prominent consultants in the field of all oils, and also by using our factory labs and labs on behalf of our contractors.

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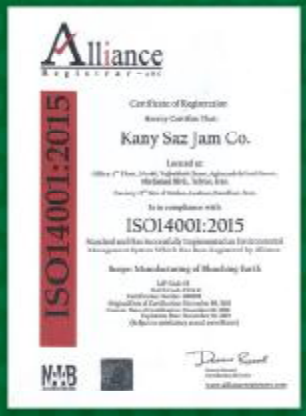

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