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Attapulgite Clay Powder of High Viscosity

The product is produced based on the natural non-metallic mineral – attapulgite clay. It has such advantages as salt-resistance, adsorption and cohesion. And it can be used as the adhesive agent, binder, thickening agent of mineral wool acoustic panel, molecular sieve, thermal insulating material, painting, foundry coating, insulating glass desiccant, as well as the catalyst carrier and the suspending agent of liquid fertilizer.

Product performance and its application

1. This product is characterized with strong adsorption and cohesion forces. It has good suspending and colloidal properties. It can be made into mineral wool acoustic panel (e.g. ceiling) together with other fibers, which integrates such functions as decoration, sound absorption, thermal insulation, fire prevention, energy conservation, disinfection and air cleaning.
2. It will not react with the molecular sieve due to its inertia in the operative media, therefore, it is used as the binding agent of the molecular sieve, and can decrease the abrasion and wearing of the sieve, enhance the sieve strength, improve the appearance and quality.
3. The product has such advantages as high water absorption, good thermal and sound insulation, adhesive value and adsorbability. Therefore, it can be used as the binder and bulking filler of the insulating glass desiccant and other desiccants.
4. It can be used as the carrier of catalyst or the suspending agent of liquid fertilizer/pesticide due to its light specific gravity, strong suspending ability and adsorbability.
5. It features special physical-chemical properties, and has perfect chemical stability required by printing and dyeing and intertexture applications. It shows no flocculation, dilution, mold generation degradation or fermentation under high temperature. Besides, it has certain viscosity and thixotropy and makes it inactive to electrolytes and easy to be washed. Therefore, it is a perfect material in printing and dyeing and intertexture industries, and it helps to decrease the COD (chemical oxygen demand) drastically in the generated wastewater.

Technical specifications (conform with Q/320830DC001-2004)

Model Item	GEL-1	GEL-2	GEL-3
Disperse viscosity (mPa.S)	≥3000	≥2500	≥2200
Residue on wet sieve (200mesh)	≤5%	≤5%	≤5%
Moisture (%)	≤15	≤15	≤15
pH value	8-10	8-10	8-10
Bulk density	0.54-0.6	0.54-0.6	0.54-0.6

Content (%) of main oxides:

SiO ₂	Al ₂ O ₃	MgO	CaO	Fe ₂ O ₃
50.4--61.3	9.4--9.8	9.3--10.5	1.8--2.5	2.3--2.9
Na ₂ O	K ₂ O	TiO ₂	MnO	L.O.S
0.3--0.5	1.0--1.6	0.2--0.6	0.04--0.08	13.8--16.4

Hydrous Magnesium -based silicate decolorizing clay

The raw material of this product is the complex clay, a rare nonmetal mineral resource of China and it is made through special technology. It appears as hoar powder, insoluble in water, oil or organic solvents. It is characterized by its high de-coloring rate, fast filtering speed and low residual oil.

This product can reduce the production cost of the oil producers to a great extent. The dosage can be lowered by 5% as compared with other similar products. The filtering speed is fast, thus the residual oil in the filtering cake can be reduced. It is a good substitute for activated carbon and activated white clay. It is a new de-coloring product which is good in performance and low in price.

Product applications:

1. It is a special product to remove coloring matters, phosphatides, colloid, soaps, etc. from oil. The oils, after being de-colored, is clear and transparent, and stable in quality.
2. It has a specific adsorption property to adsorb 100% of the potent carcinogens aflatoxins such as: B1 (AFTB1) and 3,4— benzopyrene from various kinds of vegetable oil, thus the hygienic safety requirement of the edible oil can be met.
3. Purity treatment of water for improvement of quality and wastewater treatment.

Characteristics of the product:

1. This product has a wide range of decolorizing and adsorbing functions and purifying capabilities, and it is very stable during application. It has strong adsorption towards coloring matters and impurities, and its de-coloring rate for various coloring matters in vegetable oils is over 95%.
2. It's simple and convenient to use the product, and it's not necessary to change the original production process of the oil & grease producers. The decolorizing oil is featured with low acid number which will not rise again, therefore, the dehydration process can be deleted.
3. The filtered cakes containing small amount of vegetable oil and animal fat can be re-utilized, thus the environment will not be polluted.

Operation conditions

Decolorizing temperature: 115~120°C Decolorizing time: 20~30min

Product indices

Decolorizing rate: 85~90% Decolorizing power: >150 Moisture: <5% Particle size: 150 mesh, 200 mesh and 325 mesh (or as per customer's requirement)

Sanitary index

Such heavy metals as arsenic, lead, mercury, etc. are not detected.