

Technical Data Sheet 产品资料单

Oil Filter Aid --Magnesium Silicate

Product Introduction

Magnesium silicate oil filter aid ($x\text{MgO}\cdot y\text{SiO}_2\cdot n\text{H}_2\text{O}$) is an amorphous porous, white freely flowing powder or granule. As an amphoteric adsorbent extensively used in frying oil or edible oil production process, magnesium silicate oil filter aid performs well to remove fatty acids, alkaline pigment, soap, phospholipids and some of odorous compounds containing sulfur and nitrogen atom, so that the acid value, carbonyl value, saponification value, total polar material and color of edible oil can be controlled at a certain low value.

Basic Information

Name: Magnesium silicate

CAS: 1343-88-0

Molecular Formula: $x\text{MgO}\cdot y\text{SiO}_2\cdot n\text{H}_2\text{O}$

Product Information

Test Items 测试项目	Specification 规格
Appearance 外观	Odorless white powder 白色无异味粉末
SiO ₂ 氧化硅, %	≥65.0
MgO 氧化镁, %	≥14.0
Loss on Drying (105°C, 2h) 干燥失重, %	≤20
pH (1% suspension)	8~10
Bulk Density 堆积密度, g/L	300-600
Particle Size Distribution (150um-45um) 粒径分布, %	

Application

Add untreated oil and 0.5~2% (base on the weight of untreated oil) of magnesium silicate oil filter aid into reactor by vacuum method to prevent from dust, carry out vacuum-adsorption processing under condition of a certain temperature (90~120°C) and vacuum value for about 20~30min. Allow treated oil to cool to about 70°C, filter remove absorbent by the circulation method, and finally obtain refined oil, the filtrate, when the oil is clarified and transparent and conform to edible oil specification.

Packaging, Storage and Transportation

Package in the coated paper bag lined with soft plastic-film bag, net weight 20kg/bag. Arrange bulk transports according to the specific requirements. Keep in a

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dry, clean, cool warehouse. Pay attention to moisture and rain. Any unused product should be sealed after opening the bag.