

TC-ZPT 48L

enhance stability of system.

INCI Name

ZINC PYRITHIONE

Applications

Anti-dandruff Shampoo

Description.

TC-ZPT 48L is a high-efficient antibacterial and anti-fungal agent. It is used as an antidandruff agent in shampoo formula., as one of the most popular anti-dandruff ingredients.

Formula Guidelines

Typically used at a level of 0.5~2.0%.

Some chelating agents, such as Ethylene Diaminetetra Acetic Acid (EDTA), are recommended to add into formula.

Add into formula system in final step.

Specification

Item	Value	
Appearance	Milky suspension	
pH value (25 °C, 1%soln.)	5.0-8.0	
Solid content(105°C,3h%)	≥48.0	
Active content (Zinc pyrithione, %)	≥45.0	
Particle size, μm	Horiba-D10	≤2.0
	Horiba-D50	1.5~3.0
	Horiba-D90	≤5.0

These values indicate typical specification, they are not intended to be used as product specifications.

Cautions

With possible irritation to skin and eye. If splash into eyes, please flush with plenty of water immediately.

Safe at recommended usage level.

Metal ion cause color changing. Tank made from 316L stainless steel or porcelain enamel is recommended to use in production.

Properties

- LD 50 of rat is 316mg/kg, regarded as nontoxic.
- Slightly soluble in water, mostly disperse in shampoo system with micro particle (> 1um), which has enough interface to bacterium and fungal, thereby exert maximum efficiency.
- Particle size bigger than light-wavelength, cause light scattering, thereby TC-ZPT 48L will bring extinguishing effect to shampoo, resulting in loss of pearly effect.
- Can't combine with EDTA and nonionic surfactants alone, due to incompatibility with EDTA and efficiency loss with nonionic surfactants.
- Combination with Suspending agents will

Storage & Handling

Standard Packing: 40kg/drum

Storage: Keep in Cool, Dry, Ventilated and Lightless Place.

Shelf life: 12months

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