



TC-ZPT 48

INCI Name

ZINC PYRITHIONE

Description

TC-ZPT 48 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.

Specification

Item	Value
Appearance	Milky suspension
pH value (25 °C, 1%soln.)	5.0-8.0
Solid content(105°C,3h%)	≥48.0
Particle size(≤1.0μm,%)	≥95.0
Active content (Zinc pyrrithione ,%)	≥45.0

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

Properties

- LD 50 of rat is 316mg/kg, regarded as nontoxic.
- Slightly soluble in water, mostly disperse in shampoo system with micro particle (<1μm), which has enough interface to bacterium and fungal, thereby exert maximum efficiency.
- Particle size bigger than light-wavelength, cause light scattering, thereby TC-ZPT 48 will bring extincting 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.
- Particle size < 2μm, combination with

Suspending agents will enhance stability of system.

Applications

Anti-dandruff Shampoo

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.

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.

Storage & Handling

Standard Packing: 40kg/drum

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

Shelf life: 12months

GUANGZHOU TINCIMATERIALSTECHNOLOGY CO.,LTD.

Kangda Road No.8, Yunpu Industrial Zone,
Huangpu Region, Guangzhou

TEL: 86-20-82251159 FAX: 86-20-82250169

WEBSITE: www.tinci.com

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