

Wetting Penetrating agent TIS-386

1. Product Introduction

This product is anionic special surfactant compound products, easy soluble in water and benzene petroleum and other Oil-based liquid,fast and uniform penetrating property,with good wetting,penetration, emulsification and other properties, Reduce the surface tension,greatly improve the quick effect of pesticide and control effect, Increasing the absorption efficiency of foliar fertilizer.Pesticide pH between 4-8 is the best.

2. Technical Specifications

Appearance:	Colorless to light yellow viscous
Active content:	100%
Ionic type:	anionic
pH Value:	6-8
Surface tension:	25.1-27.2
Penetration time:	6s-30s
Water content:	<1%
Stability:	intolerance of strong acid and alkali resistance, intolerance of heavy metal salts, intolerance of reducing agent.

3. Superiority

Safety and environmental protection, biodegradable, no pollution to the environment.

With wetting, rapid penetrating property, improve the quick effect.Product is anionic, the compound is good, it can be used in water-based pesticides, also in oil-based pesticide

4. Usage:

- (1). Applicable to all liquid formulations of pesticide, Increase the penetrating of liquid, reduce surface tension, improve wetting property, fully use product wetting, penetrating comprehensive efficiency. when manufacturers use monomers deployment emulsifier, can add 1-5% into pesticide, also can reduce equivalent amounts of other monomers.
- (2). Add 1-5% of this product into EC or oil suspension formulations, in the same time, can reduce 1-5% amount of monomer emulsifier, rapidly improve its wetting permeability, breed the waxy and plush layers of crops, penetrate the stratum corneum of the parasite, increase adhesion.
- (3). Add 1-5% of this product into EW and SC formulations. Increase the transparency and stability of pesticides, Improves wetting and penetrating efficiency, wetting time is 5 second, Penetration time is 15 second.
- (4). Add 1-5% of this product into water dispersible, wetting powder formulations. Reduce 20-40% time of Airflow pulverizer, increasing the fineness uniformity of wetting powder, increase the spreading and wetting speed of wetting powder. The product wetting effect is 4-6 times more than K12, in wetting powder can instead of K12, and improve the penetrating and spreading property. When add into protective Fungicide, it will have superiority wetting spreading property, Pesticides can play better, can achieve the same or even better results of imported pesticides.
- (5). Add 2-4% of this product into liquid fertilizer, it can significantly improve the wetting speed, improve efficiency of pesticide, and form a protective film on the crop surface.

5. Matters need attention

This product is an anionic surfactant, so can not add into cationic formulations such as paraquat. When add this product into fertilizer, it will reaction with Copper, Manganese, Zinc, Calcium and other Metal Ions, form insoluble metal salt precipitation so that reduce fertilizer efficiency, you can add this product after using chelating agent (such as EDTA) protect the metal ion.

6. Package and Storage

25kg,50kg,200kg plastic drum or steel drum, 1MT/IBCs container, to store in a cool and dry place. Storage period is 2 year.

7. Other information

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.