

## ASTRA F 1409

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Functional additive

### Description

ASTRA F 1409 is a new type of polymer surfactant prepared by active radical polymerization technology. Its main chain is a hydrophobic polyelectrolyte with regular ABA structure, which can realize spatial three-dimensional adsorption and has solvation chain effect and electrostatic repulsion effect. It is an excellent dispersant for WDG and can also be used for DF, SC, WP and other preparations. It can be widely used in a variety of technical drug systems, and the formula is suitable for technical drugs such as Emamectin salt, phenyl ether, acetamiprid, Pymetrozine, thiamethoxam, etc. It has wide adaptability to technical drugs with strong hydrophobicity.

### Physical and Chemical properties

|   |              |
|---|--------------|
| <b>Appearance:</b>                                  | White powder |
| <b>pH (10% aqueous solution):</b>                   | 10-11        |
| <b>Rotational viscosity (30% aqueous solution):</b> | 300-400cps   |

### Specialty

1. High performance, low dosage, 3-5% addition can obtain excellent product performance.
2. The application efficiency is high, which makes WDG have better disintegration, suspension stability and secondary dispersion.
3. Soluble in water, especially in high content water dispersible granules.
4. The storage performance of the product is stable.
5. Excellent compatibility. It can be mixed with other anionic additives to reduce costs.
6. Strong adaptability. For ultra-fine and non-uniform fineness distribution of technical drugs or technical drugs with low purity, the product can still achieve good dispersion and produce satisfactory products.
7. ASTRA F 1409 has good versatility and can be widely used in the processing of new formulations of organic WDG and SC such as insecticidal, bactericidal and weeding. The practical application can get very good dispersion and stability effect.

The information herein is based on our present knowledge and experience. The information merely describes the properties of our products but no guarantee of properties in the legal sense shall be implied. We recommend testing our products as to their suitability for your envisaged purpose prior to use. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties. We reserve the right to make any changes according to technological progress or further developments.



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### Package and Precautions

Store in cool and ventilated warehouse; Keep away from fire and heat source, and avoid long-term storage below zero °C;

The storage area shall be provided with suitable materials to contain the leakage. If the cover is not used up, please re seal it to avoid moisture absorption of the powder, which will affect the application performance of the powder.

Warranty period: 2 years.

Packaging: 15kg/bag

Closed operation, local exhaust. Operators must be specially trained and strictly abide by the operating procedures. It is recommended to wear self-priming dust-proof half mask, safety glasses and latex gloves; Avoid liquid splashing; Handle with care to prevent package damage; Equipped with leakage emergency treatment equipment. Please conduct compatibility test before mass production. If you have any questions about the formula, please consult our technical personnel.

The information herein is based on our present knowledge and experience. The information merely describes the properties of our products but no guarantee of properties in the legal sense shall be implied. We recommend testing our products as to their suitability for your envisaged purpose prior to use. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties. We reserve the right to make any changes according to technological progress or further developments.

