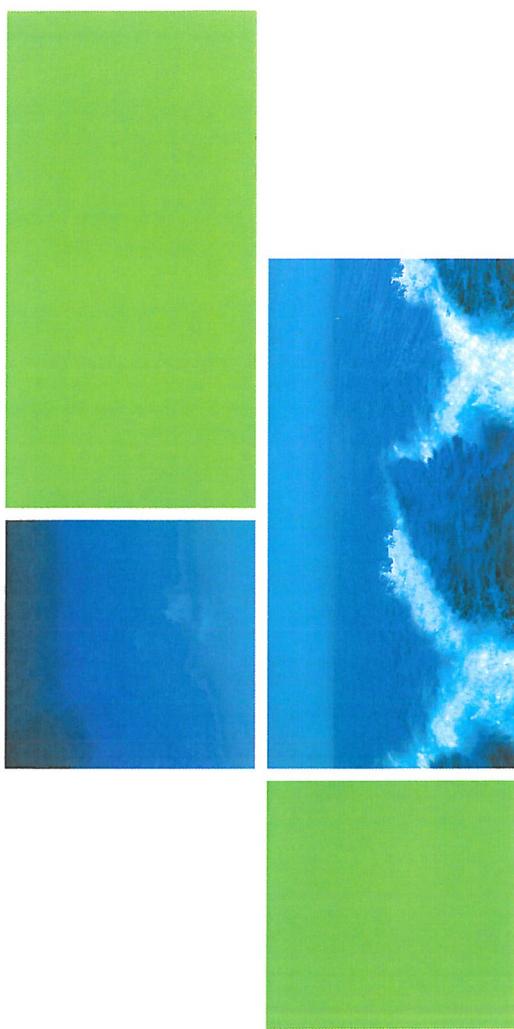


农用有机硅助剂

Silicone Spray Adjuvant for
Agrocultural Applications

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公司简介
杭州崇耀科技发展有限公司是一家集生产、销售、技术服务为一体的高新技术企业。公司主要产品有：农用有机硅助剂、水性乳化剂、增效剂、除草剂、杀虫剂、杀菌剂等。公司秉承“至臻之智，共赢未来”的经营理念，坚持“诚信、创新、务实、高效”的企业精神，致力于为广大客户提供优质的产品和专业的技术服务。公司拥有先进的生产设备和完善的质量管理体系，产品远销国内外，赢得了良好的信誉和口碑。



至臻之智 共赢未来
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企业简介

Enterprise Profile



杭州泰潤科技發展有限公司，為浙江新安化工集團股份有限公司旗下子公司，生產基地位於浙江省建德市高鐵新區，公司擁有萬噸級有機硅下游產品的生產產能。公司主要圍繞作物保護、聚氨酯發泡、合成革、涂料油墨、离型涂层和壓敏膠、高分子材料改性等領域進行有機硅特殊化學品的研發、生產和銷售，為客戶提供專業化、個性化的技術服務和支持。

公司通過ISO9001質量管理體系、ISO14001環境管理體系、OHSAS18001職業健康安全體系的認證，建立了規範化、制度化、科學化、現代化的質量控制體系，追求綠色環保和可持續發展。公司擁有一支具有數十年專業經驗的研發和應用技術支持團隊，始終堅持技术创新，以市場為導向，致力於為國內外客戶提供優質的產品和卓越的服務。

Hangzhou Top Win Technology Development Co., Ltd., a subsidiary of Zhejiang Wynca Chemical Group Co., Ltd., is located in the Jiaode high-speed rail new area, Jiande City, Zhejiang Province, with a production capacity of 10000 tons of silicone specialties. The company mainly focuses on the research and development, production and sales of silicone specialty in the fields of crop protection, polyurethane foam, leather and textile, coating and ink, release coating and pressure sensitive adhesive, silicone for modification of various polymer materials, and other fields, providing customers with professional and personalized technical service and support.

Top Win obtained the certificates of ISO9001 quality management system, ISO14001 environmental management system and OHSAS18001 occupational safety and health management system, and established a standardized, institutionalized, scientific and modern quality control system to pursue environment friendly protection and sustainable development. The company has a R & D and application technology support team with professional experience and keeps pursuing technological innovation, to be market-oriented and committing to providing customers with high-quality products and excellent services at home and abroad.

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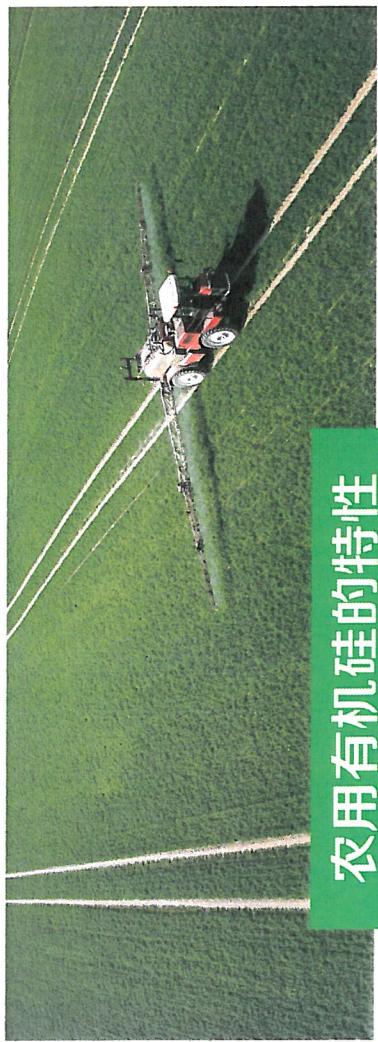
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农用有机硅的特性

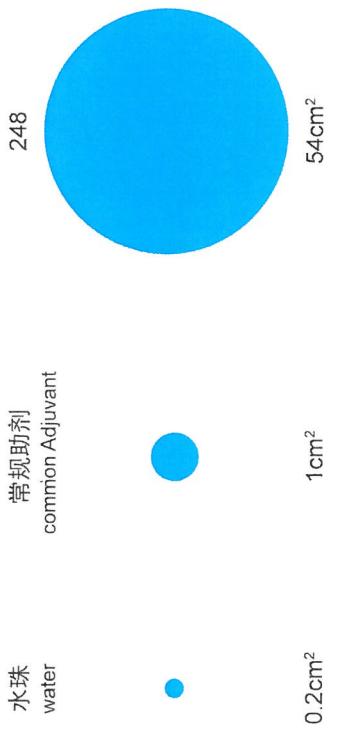
Characteristic of High Performance
Agrosilicone Adjuvant

- 超级润湿及渗透作用。
- 极大的降低表面张力及减少药剂和生物靶标之间的接触角。
- 增加喷雾药液覆盖面。
- 促进喷雾药液快速吸收。
- 抗雨水冲刷。
- 提高农药的有效利用率，降低农药投放量。（减少农药使用量30-50%）
- 环境友好，符合环保要求。

- Superwetting and penetration.
- Reduce surface tension significantly, and lower contact angle of agrochemical fluid to crop.
- Improve spray coverage of agrochemicals on crop.
- Promote rapid uptake of agrochemical into plant tissues.
- Rain fastness.
- Make agrochemical fluid more efficient, reduce usage by 30-50%.
- Environment friendly.

农用有机硅的助剂的作用原理 Silicone Adjuvant Work Theory

- 液滴作用于植被表面，我们可以明显看到添加了农用有机硅助剂之后的铺展效果。
- A drop of Adjuvant solution above crop, let's see how much area they can spread.

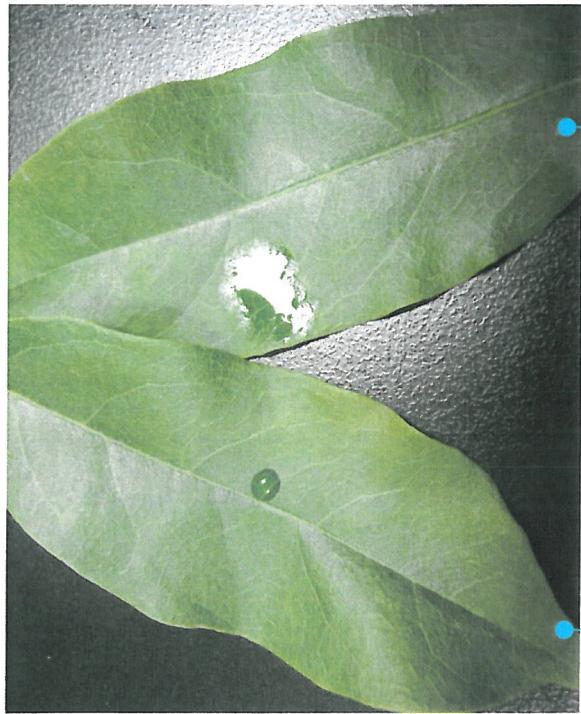


不添加有机硅助剂，药液无法均匀在叶面上铺展。
Solution without Adjuvant inside that cannot well-spread on leaves.

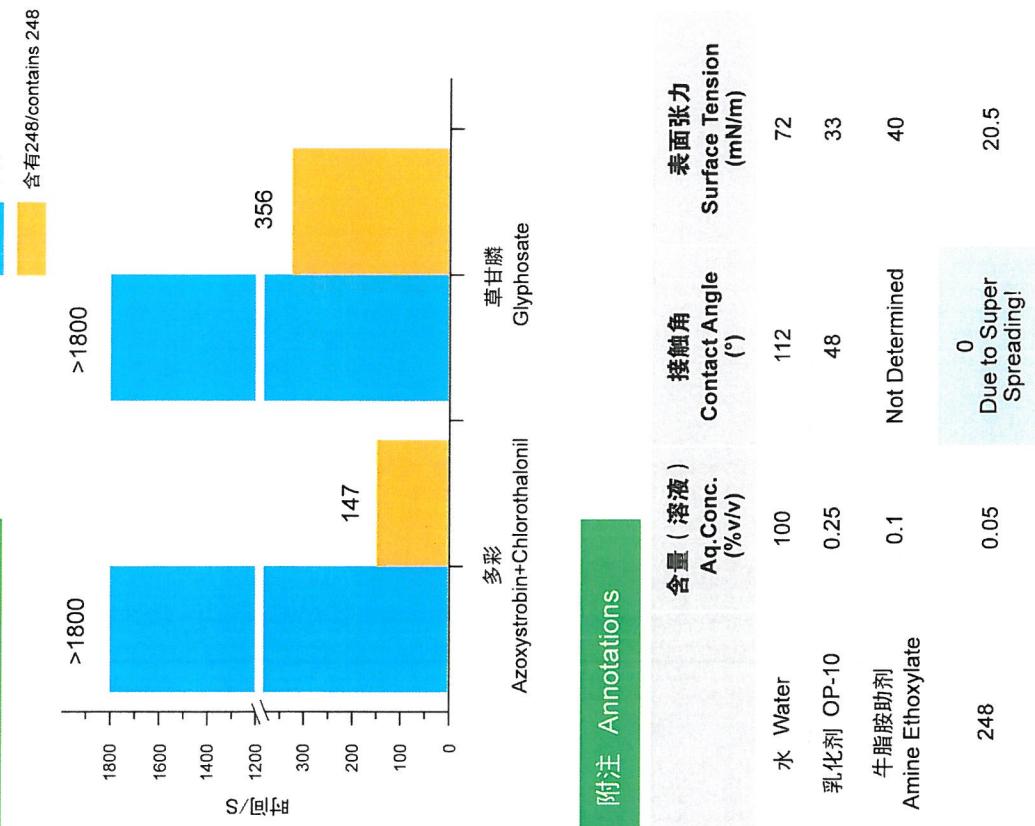


添加有机硅助剂后，药液均匀铺展在叶片表面。
Solution contains silicone Adjuvant can spread on leaves smoothly.

- 降低表面张力，从而达到增强液体的展布能力。
- 当液体表面张力降低到23达因/米，液体会产生如图示的展布效果。
- Increasing the wetting and spreading performance caused by reducing surface tension.
- Only when surface tension is less than 23mN/m, superwetting and spreading performance can be achieved as shown in photo.



吸收效率对比 Absorption Efficiency



附注 Annotations

	含量 (溶液) Aq. Conc. (%v/v)	接触角 Contact Angle (°)	表面张力 Surface Tension (mN/m)
水 Water	100	112	72
乳化剂 OP-10	0.25	48	33
牛脂胺助剂 Amine Ethoxylate	0.1	Not Determined	40
不含有机硅助剂 no silicone adjuvants	248	0 Due to Super Spreading!	20.5



适用的农药品种

Suitable Pesticide Variety

在全球不同地区气候条件下，在各种作物上经过各国独立科研机构对超级展扩剂进行了大量的田间药效试验，显示出优异的效果。

In various regions of the world under different climatic conditions, a lot of field efficacy trials have been carried out on various crops by independent research institutes in various countries. Agrosilicone adjuvants show excellent results.

- 除草剂
- 杀菌剂
- 杀虫剂和杀螨剂
- 植物生长调节剂
- 叶面肥等
- Herbicide
- Fungicide
- Insecticide and Acaricide
- Plant Growth Regulator
- Fertilizer

Products	型号	注释	CAS NO
	248	水分散型，性价比高，建议桶混使用。 Water dispersible, high cost performance, recommend Tank-Mix use.	67674-67-3
	255	水分散型，超低泡，建议桶混使用。 Water dispersible, very low foam, recommend for Tank-mix use.	Secret
	276	水分散型，低泡、凝固点低(-30度)，适合低温地区冬季使用。 Water dispersible, Low foam, Very low pour point for low temperature applications.	134180-76-0
	277	水分散型，中高泡，建议桶混使用。 Water dispersible, Medium-high foam, recommend Tank-Mix use.	27306-78-1
	278	中泡、凝固点低(-30度)，水溶液透明，可建议用于中性水剂。 Medium foam, Very low pour point for low temperature applications. Soluble in water.	134180-76-0

农用有机硅选型推荐

Silicone Adjuvant Selection Guide

Products	表面张力 (0.1Nad./m)N/m	抗雨水冲刷 Rainfastness	渗透 Penetration	铺展 Spreading	泡沫 Foam Stability	pH范围 pH Range	添加比例 Typical Use Rate
248	20.3-20.5	★★★★★	★★★★★	★★★★★	★★★★★	6.5-7.5	0.025-0.15%
255	20.3-20.5	★★★★★	★★★★★	★★★★★	★	6.5-7.5	0.025-0.1%
276	20.8-21.0	★★★★★	★★★★★	★★★★★	★★	6.5-7.5	0.015-0.05%
277	20.6-20.9	★★★★★	★★★★★	★★★★★	★★★★★	6.5-7.5	0.015-0.1%
278	21.4-21.6	★★★★★	★★★★★	★★★★★	★★★★	5.5-8.5	0.025-0.05%

使用注意事项

Precautions for Use

应用于水基型剂型中 In aqueous solution

- 调整配方体系pH，尽可能地近中性，起码5.5-8.5，最好达到6.0-8.0
- 适当提高三硅氧烷的比例，最好使体系达到胶束浓度
- Make the pH to be 7 as possible, at least be 5.5-8.5, 6.0-8.0 is better.
- To improve Trisiloxane adjuvant content appropriately, with critical micelle concentration is the best.

应用示例 Example



包装与贮存 Packing and Storage

- 包装规格：25Kg/塑桶 / 200Kg/铁桶 / 1000Kg/铁桶
- Packing: 25Kg/pail / 200Kg/drum / 1000Kg/tote-bins
- 储藏温度：0-40°C
- 存放于通风良好的区域，远离火源和热源，保持容器密闭。
Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials

使用安全卫生与相关注意事项 Safety and Hygiene

- 使用时请佩戴必要的防护用具（如防护手套、防护眼镜等）。
- Always wear protective gear (like gloves, goggles etc.,) when using these products to prevent from contact with skin and mucous membranes.
- 使用前请仔细阅读产品安全资料说明书。
Please read the Material Safety Data Sheets (MSDS) for these products carefully before use.

应用于非水基型剂型中 In non-aqueous solution

- 如乳油(EC)
- 无水份，避免有机硅水解的问题；有机溶剂，相容性佳。 |
- Like EC
- No water, so no decomposition problem. Organic solvent is good compatible with silicone Adjuvant.

应用示例 Example

