



AG-tech®
leading solution

AG ADJUVANT

Wet, Spread, Stick, Penetrate

农 药 增 效 辅 助 剂

AgroSorb 20™

AgroSorb 20™ is a polymeric adjuvant specially formulated by Fertitrade to enhance agrochemical's efficacy. Agrosorb 20™ is a combination of activator adjuvant (non-ionic surfactant) and utility adjuvant (drift control agent). Agrosorb 20™ is suitable to mix with most of the agrochemicals, especially herbicides to improve dissemination and provide longer protection.

Sticking. AgroSorb 20™ is able to reduce surface tension of water and formation of water beads on leaf surface, especially on waxy and hairy leaves. This reduces water droplets bouncing effects, hence improving stickiness of the agrochemicals on the leaf surface.

Spreading & Wetting. Due to the reduced surface tension of water, flatter water droplets have better surface contact, hence better spreading and wetting effect.

Penetrating. AgroSorb 20™ is able to reduce evaporation of the spray. Therefore, agrochemical has longer period of time to diffuse and penetrate. Agrosorb 20™ is also an oily liquid.

Rainfastness. AgroSorb 20™ is able to provide rain protection within an hour, thus better effectiveness and is able to cut re-spraying cost.

Drift Control. Thicker and heavier solution can be achieved through the use of AgroSorb 20™, thus reduces spray driftness during spraying. An accurate spray is able to reduce health risks caused by inhalation of agrochemicals during operation, as highlighted in MSPO.



Available in 1L, 4L & 20L

农力湿 20

农力湿20是丰登特制而成，用来提升农药效果的聚合辅助剂。农力湿20是表面活性辅助剂（非离子湿润剂）和非表面活性辅助剂（防漂移剂）的结合。农力湿20适合与众多农药，特别是除草剂混合使用以提高展布及更持久的保护。

粘着。农力湿20能降低药液的表面张力及减少在叶片表面，尤其是腊质及毛质叶片圆水珠的形成。这表示免除了因圆水珠的反弹能力，从而增加了农药在叶片表面的粘着。

湿润&展着。因表面张力的减少，扁平化的水珠拥有更好的表面接触，从而更好展着及湿润。

渗透。农力湿20能缓慢喷雾的蒸发。因此，农药含有更长的时间来渗透。农力湿20也属于油性液体。

耐雨刷。农力湿20能在一小时内给予耐雨后冲刷能力，因而提供更加的效果及减少重施的费用。

防漂移。农力湿20能使喷雾变得更粘稠及重，从而减少喷施时喷雾因风吹而漂移。精准的喷施也能减少农药的吸入所造成的健康风险，正如马来西亚可持续棕榈油(MSPO)标准所提倡的。

Characteristics 特性

Active ingredient 表面活性剂	Nonylphenol Ethoxylated 壬基酚乙氧基化
Surface type 表面活性剂类型	Non-ionic 非离子
Appearance (25 °C) 外观	Clear, yellow liquid 清澈, 黄色液体
HLB value HLB值	approx. 12
Density 密度	g/cm ³ 1.01
pH value (5% solution) 酸碱值	7.1 ± 0.1
Solubility 水溶性	forms clear solution, no gelling 形成清澈液体, 没有凝胶现象

Usage Recommendations 使用建议

Foliar Types 叶面种类	Dilution rate in 18L solution 每18升喷洒	Dilution rate in 200L solution 每200升喷洒
Normal surface 一般叶面	10 ml /毫升	110 ml /毫升
Waxy / hairy surface 蜡质/毛质叶面	15 - 30 ml /毫升	160 - 330 ml /毫升

Ferti Libsorb™

Ferti Libsorb™ is an adjuvant originated from Germany to enhance agrochemical's efficacy. Ferti Libsorb is an environment friendly activator adjuvant (non-ionic). Ferti Libsorb™ is suitable to mix with most of the agrochemical, especially fungicides, insecticides and foliar fertilisers to improve dispersion and provide longer protection. Same as AgroSorb 20™, Ferti Libsorb™ also has these functions, eg. **Sticking, Wetting, Spreading, Penetrating and Rainfastness**. In addition, Ferti Libsorb™ has other advantages as follow:

Environment Friendly. Ferti Libsorb™ is biodegradable (OECD 301 A-F) and has low toxicity towards aquatic life (Algae EC50: 10 - 100mg/l).

Better Flow & Solubility. Ferti Libsorb™ forms clear solution in water and does not gell when diluted, thus no blockage issue.

Low Foam Content. Ferti Libsorb™ is not foamy due to its non-ionic properties. Foamy solution produced from domestic soap will injure leaf tissues although it also functions as adjuvant.



Available in 1L

力速

力速是源自德国用来提升农药效果的辅助剂。力速是具环保的表面活性辅助剂（非离子湿润剂）。力速适合与众多农药，尤其是菌药，虫药及叶面肥混合使用以提高展布及更持久的保护。与农力湿20一样，力速拥有此功能如：**粘着，湿润，展着，渗透及耐雨刷**。最重要的是，力速含有其它的特点如：

具环保性。力速可被生物降解(OECD 301 A-F)及对水生物毒性低(Algae EC50: 10 - 100 mg/l)。

溶解及流动性兼佳。力速在水里形成透明清澈的溶液及不会在稀释时形成凝胶，因此不会造成阻塞。

低泡沫。力速是不会产生大量泡沫的非离子物质。家用的肥皂粉虽然也是辅助剂，但它所产生的大量泡沫会损伤叶片细胞。

Characteristics 特性

Active ingredient 表面活性剂	Fatty Alcohol Ethoxylate 脂肪醇乙氧基化
Surface type 表面活性剂类型	Non-ionic 非离子
Appearance (25 °C) 外观	Clear, colorless solution 清澈, 无色液体
HLB value HLB值	approx. 14
Viscosity 黏度 (23 °C)	mPa.s approx. 100
Density 密度	g/cm ³ 1.02
Surface tension 表面张力(1g/L, 23 °C)	mN/m approx. 27
Wetting 润湿力 (1g/L, 23 °C)	s approx. 10
pH value (5% solution) 酸碱值	7.1 ± 0.1

Usage Recommendations 使用建议

Usage 用法	Dilution rate in 1L 每1公升喷洒
Mix spraying 混合喷洒	1 - 1.5 ml 毫升

Manufactured & Distributed By:



FERTITRADE (M) SDN. BHD.

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