Solutions for Drone Application Tank-Mix adjuvants AGRHO[®] AEROMATE 320



Progress beyond



DRONE SPRAYING CHALLENGES

- Evaporation
- ✓ Low spray volume
- → Compatibility,
- → Deposition,
- → Efficacy

- FEATURES & BENEFITS
- Bio-based drift reducing adjuvant
- ✓ Specifically designed for aerial applications.
- ✔ Helps to increase droplet size for drift reduction
- Improves deposition rate leading to improved overall spray efficacy

Primary attributes:

- Coverage
- Deposition
- Anti-drift
- Efficacy booster
- Good shelf-life
- Provide good tank mix compatibility with common agrochemical formulations

Recommended dose rate: 0,3-0,5%

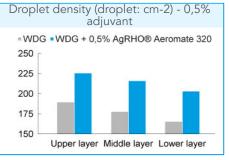
DRONE FIELD TRIAL RESULTS

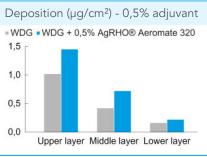
Experimental Conditions

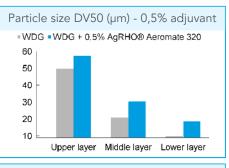
• Crop: paddy

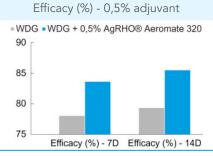
Conclusions

- Pesticide: Commercial 35% Chlorantraniliprole WDG
- Target insect: rice leaf roller
- Application concentration: Pesticide = 4.1 fl.oz/acre; Adjuvant = 2.05 or 4.1fl.oz/acre
- Note: Water 410 fl.oz/acre; adjuvant concentration: 0,5% & 1%
- Drone setting: DJI Agras T30; nozzle type: SX11001VS; flight height: 3m, flight speed: 4m/s









Comparing with insecticide WDG without adjuvants, AgRHO[®] Aeromate 320 showed up to:

- \sim 10 μm increase in D50 of particle size
- ≥ 30% increase in droplet density > 40% increase in deposition
- > 10% increase in efficacy

With these results, we can expect significant drift reduction, good coverage, higher penetration and ultimately higher spray efficacy.