



COMPANY PROFILE

Sichuan Luobu founded in 2019 in Shifang City, a major phosphate production base in Sichuan Province, China. We specialize in the R&D, production and sales of high-performance phosphate-based fertilizers for modern agriculture.

Our main products include drone grade MKP, conventional crystal MKP, MAP, and a full range of water-soluble NPK fertilizers for fertigation and precision farming.

As a National High-Tech Enterprise, we own 13 patents and have received multiple awards, including the "2023 Top 100 Agricultural Science and Technology Achievements". Backed by a professional team with over 20 years of industry experience, advanced manufacturing facilities and strict quality control, we are committed to supporting sustainable and mechanized agriculture worldwide.

COMPANY HONOR



Focus on
Drone Grade Monopotassium
Phosphate for UAV Application



SICHUAN LUOBU NEW MATERIAL TECHNOLOGY CO., LTD



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DRONE GRADE MONOPOTASSIUM PHOSPHATE

A high-tech fertilizer built on ultra-pure MKP and using Luobu's proprietary centrifugal spray-drying technology, delivering exceptional performance in anti-caking, flowability, rapid dissolution, nutrient absorption, leaf permeability and anti-drift properties, while solving the core pain points of UAV fertilization.

Exceptional Anti-caking

Drone-Grade MKP features exceptional anti-caking properties and excellent flowability. It stays stable, free-flowing, and easy to handle for over 2 years, resisting moisture and caking even in tough storage conditions.

Low Surface Tension

Drone-Grade MKP has a surface tension of less than 30 mN/m. This allows for faster absorption through leaf stomata and higher nutrient efficiency.

Rapid Dissolution

Drone-Grade MKP dissolves quickly in water, forming a uniform solution that spreads evenly on leaves and reduces runoff, making it ideal for aerial application.

Strong Compatibility

Drone-Grade MKP mixes seamlessly with most pesticides and fertilizers without reducing efficacy, allowing for convenient and efficient tank mixing.



$\text{KH}_2\text{PO}_4 \geq 99\%$ | $\text{P}_2\text{O}_5 \geq 51.5\%$ | $\text{K}_2\text{O} \geq 34\%$

Drone-Grade MKP



Crystal MKP

1 Dissolution Speed (20°C, 1 kg in 20L water)

Drone-Grade MKP

Flash dissolution: Fully dissolves in **5–8 seconds** with light stirring



Crystal MKP

Slow dissolution: Requires **9–10 minutes** of stirring to fully dissolve

2 Wettability (Surface Tension)

Drone-Grade MKP

Formulated with additives; **29.71 mN/m** (excellent wettability)



Crystal MKP

No special additives; **72 mN/m** (poor wettability)

3 Permeability (Leaf Contact Angle)

Drone-Grade MKP

68.38° (superior adhesion & permeability)



Crystal MKP

92.3° (weak adhesion, limited permeability)

I. Crystal Monopotassium Phosphate

- Main content $\geq 99.0\%$
- $\text{P}_2\text{O}_5 \geq 52.0\%$, $\text{K}_2\text{O} \geq 34.0\%$
- pH (1% solution) water-insoluble matter $\leq 0.1\%$
- Annual capacity: 50,000 MT
- Daily capacity: approx. 200 MT
- Small-bag packing capacity: up to 100 MT/day (1 kg bags)
- Dedicated production line: 50,000 MT
- Full specifications: 25g–25kg

II. Water Soluble NPK Fertilizers

- Formulas: balanced / high N / high P / high K
- 100% water-soluble, chlorine-free & sodium-free
- Chelated trace elements, high absorption efficiency
- Annual capacity: 20,000 MT
- Equipped with 20,000 MT dedicated solid water-soluble fertilizer facility
- Suitable for seedling, fruit swelling, coloring and whole growth stages

