

# TECHNICAL DATA SHEET

## MONOCALCIUM PHOSPHATE (MCP) – FEED GRADE

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### 1. Product Description

Monocalcium Phosphate (MCP) is a highly digestible inorganic feed additive used as a concentrated source of **phosphorus and calcium** in animal nutrition. Due to its **high bioavailability**, MCP is widely used to improve **growth performance, bone strength, and feed efficiency** in livestock and poultry.

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### 2. Chemical Composition

Parameter	Specification	Typical Value
Phosphorus (P)	≥ 22.0 %	22.06 %
Calcium (Ca)	≥ 20.0 %	23.12 %
Fluorine (F)	≤ 0.10 %	0.03 %
Moisture	≤ 4.0 %	0.86 %

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### 3. Heavy Metals

Parameter	Specification	Typical Value
Arsenic (As)	≤ 0.0025 %	0.0008 %
Lead (Pb)	≤ 0.0030 %	0.0005 %

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### 4. Physical Properties

Parameter	Specification
Appearance	White to off-white powder or granules
Particle Size	≥ 95% (10–40 mesh)
Odor	Odorless
Solubility	Slightly soluble in water

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### 5. Nutritional Role

- Provides **highly available phosphorus** for optimal absorption

- Enhances:
    - Bone mineralization and skeletal development
    - Eggshell quality in layers
    - Growth performance and feed conversion ratio (FCR)
    - Metabolic and enzymatic functions
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## 6. Application & Dosage Guidelines

<b>Animal Category</b>	<b>Inclusion Rate</b>
Poultry	0.8 – 1.8 % of feed
Swine	0.8 – 1.5 % of feed
Ruminants	0.5 – 1.2 % of feed
Aquaculture	1.0 – 2.0 % of feed

*Note: Inclusion depends on formulation, phytase use, and dietary mineral balance.*

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## 7. Key Advantages

- Higher phosphorus digestibility compared to DCP
  - Lower fluorine content → improved safety
  - Better feed efficiency and nutrient utilization
  - Suitable for high-performance feed formulations
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## 8. Packaging

- 25 kg polypropylene (PP) bags with inner liner
  - Bulk packaging available upon request
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## 9. Shelf Life

- **24 months** from date of manufacture under recommended storage conditions
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## 10. Storage Conditions

- Store in a **cool, dry, well-ventilated area**
- Protect from moisture and contamination

- Keep packaging tightly sealed
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## **11. Quality & Compliance**

- Feed Grade Quality
  - Produced under controlled manufacturing standards
  - Complies with international feed safety requirements
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## **12. Safety Information**

- Safe when used as directed
  - Avoid inhalation of dust during handling
  - Use appropriate PPE (mask, gloves)
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## **13. Manufacturer Details**

**Qingdao Rechem Chemical Co., Limited**  
Shibe District, Qingdao, Shandong, China