

Technical Data Sheet (TDS)

1. Product Overview

- Product Name: Poly(diallyldimethylammonium chloride)
- English Name: Poly(diallyldimethylammonium chloride)
- CAS Number: 26062-79-3
- Formula: $(C_8 H_{16} NCl)_n$
- Molecular Weight: Variable (10,000-1,000,000 Da)
- Product Characteristics: Cationic polymer viscous liquid, high charge density, efficient flocculation and adsorption performance. Non-toxic, biodegradable, compatible with water-based systems. Stable under normal use, suitable for water treatment, papermaking, and cosmetics.

2. Technical Specifications

Item	Specification
Appearance	Colorless to pale yellow viscous liquid
Solid Content	≥ 40.0%
Charge Density	4.0-6.0 meq/g
Viscosity (25°C, 25% solution)	500-5000 mPa s
pH Value (25°C, 1% solution)	5.0-7.0
Heavy Metals (Pb)	≤ 5 ppm
Heavy Metals (As)	≤ 1 ppm
Total Bacterial Count	≤ 100 CFU/mL
E. coli	Negative
Density (25°C)	1.05-1.10 g/cm ³
Stability	Stable at 0-40°C

3. Product Advantages

- High charge density for efficient flocculation and retention.
- Non-toxic and biodegradable, environmentally friendly.
- Good compatibility with water-based systems.
- Versatile applications across multiple industries.
- Long shelf life under proper storage.

4. Application Fields

- Water Treatment: Municipal sewage, industrial wastewater (flocculant for solid-liquid separation).
- Papermaking: Retention aid, drainage aid, sizing agent.
- Textile Industry: Dyeing auxiliary, antistatic agent.
- Cosmetics: Hair conditioner, skin care product thickener.
- Other: Disinfection auxiliary, oilfield chemical additive.

5. Usage Methods



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- Dosage: Water treatment: 1-50 ppm; Papermaking: 0.1-1 kg/ton pulp; Cosmetics: 0.5-5% (mass ratio).
- Addition Method: Dilute with water (1:10-1:100) before use; stir evenly.
- Optimal Conditions: Apply at 15-35°C; avoid strong acids/bases.

6. Packaging & Storage

- Packaging: 25 kg HDPE drums, 200 kg HDPE drums, 1000 kg IBC totes.
- Storage: Cool, dark, well-ventilated warehouse ($\leq 30^{\circ}\text{C}$); keep sealed.
- Shelf Life: 12 months (unopened).
- Transportation: Non-dangerous goods; avoid collision, sunlight, high temperature.

7. Safety & Protection

- Avoid direct eye contact; wear safety glasses and gloves for large-scale handling.
- Rinse with water immediately if skin/eye contact occurs.
- Do not ingest; seek medical advice if accidentally swallowed.

8. Quality Assurance

- Manufactured under ISO 9001 and ISO 14001 standards.
- Each batch accompanied by COA.
- Provide technical support for dosage and application.

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