

POLYACRYLAMIDE (PAM)

TECHNICAL PRODUCT BROCHURE

High-Performance Polymer
for Water & Wastewater Treatment



Efficient
Separation



Reliable
Performance



Sustainable
Solutions

Polyacrylamide Solutions for Water & Wastewater Treatment

KolinSC provides professional polyacrylamide solutions for global water treatment applications, including sludge dewatering, industrial wastewater treatment, mineral processing and solid-liquid separation.

About KolinSC

KolinSC is a professional supplier specializing in water treatment chemicals. We focus on providing reliable products, stable supply capability and technical support for international customers.

1. Polyacrylamide (PAM) Overview

Polyacrylamide (PAM) is a high molecular weight, water-soluble polymer widely used as a flocculant and separation aid. Its performance depends on molecular weight, charge density, hydrolysis degree and molecular structure.

Product Categories

- Anionic Polyacrylamide (APAM)
- Cationic Polyacrylamide (CPAM)
- Non-ionic Polyacrylamide (NPAM)
- Amphoteric Polyacrylamide (ACPAM)

Typical Applications

- Municipal wastewater treatment
- Industrial wastewater clarification
- Sludge dewatering
- Mining and mineral processing
- Coal washing and tailings treatment
- Paper industry retention and drainage

2. Anionic Polyacrylamide (APAM)

APAM contains negatively charged functional groups. Through adsorption and inter-particle bridging, APAM forms larger flocs and improves sedimentation, clarification and filtration performance.

Applications

- Mining wastewater treatment
- Coal washing
- Tailings treatment
- Sand washing
- Inorganic suspension clarification

Grade	Appearance	Solids (%)	Molecular Weight (Million)	Hydrolysis (%)	Dissolution (h)
Low-hydrolysis APAM	White granules, free-flowing	≥88	15-16	15-20	≤1
Medium-hydrolysis APAM	White granules, free-flowing	≥90	17-19	26-30	≤1
High-hydrolysis APAM	White granules, free-flowing	≥90	19-20	28-32	≤1
Very-low-hydrolysis APAM	White granules, free-flowing	≥89	15-16	8-15	≤1
High-MW APAM	White granules, free-flowing	≥92	20-23	40-45	≤1

3. Cationic Polyacrylamide (CPAM)

CPAM contains positively charged groups and is mainly designed for sludge dewatering, organic wastewater treatment and negatively charged colloidal systems.

Applications

- Municipal sludge dewatering
- Industrial sludge treatment
- Food processing wastewater
- Paper wastewater

- Chemical wastewater

Grade	Appearance	Solids (%)	MW (Million)	Ionicity (%)	Dissolution (h)
KLSC10	White granules, free-flowing	≥88	9-11	8-11	≤1
KLSC15	White granules, free-flowing	≥88	11-13	13-15	≤1
KLSC20	White granules, free-flowing	≥88	10-12	19-21	≤1
KLSC25	White granules, free-flowing	≥88	10-12	20-25	≤1
KLSC30	White granules, free-flowing	≥88	10-12	27-31	≤1
KLSC40	White granules, free-flowing	≥88	10-11	33-38	≤1
KLSC45	White granules, free-flowing	≥88	9-11	40-45	≤1
KLSC50	White granules, free-flowing	≥88	9-11	45-52	≤1
KLSC60	White granules, free-flowing	≥88	9-11	55-57	≤1
KLSC70	White granules, free-flowing	≥88	9-11	58-65	≤1
KLSC80	White granules, free-flowing	≥88	9-11	68-75	≤1

4. Non-ionic Polyacrylamide (NPAM)

NPAM has low ionic charge and performs well in acidic systems and applications where charge interaction is limited.

Grade	Appearance	Solids (%)	MW (Million)	Ionicity (%)	Dissolution (h)
3N	White granules, free-flowing	≥88	9-11	≤1	≤2
8N	White granules, free-flowing	≥88	11-14	≤6	≤1

5. Amphoteric Polyacrylamide (ACPAM)

ACPAM contains both anionic and cationic groups in one polymer chain. It is suitable for complex wastewater systems requiring broad pH tolerance.

Grade	Appearance	Solids (%)	MW (Million)	Ionicity (%)	Dissolution (h)	Note
NA	White granules, free-flowing	≥86	8-9	≤5	≤2	Low-MW grade
DA	White granules, free-flowing	≥90	5-6	≤5	≤1	-

6. Preparation and Dosing Guide

- Prepare PAM solution normally at 0.05%-0.3% concentration using clean water.
- Add powder slowly into the vortex to avoid fish-eyes and agglomeration.
- Allow sufficient maturation before use.
- Optimize product grade and dosage through jar testing.
- Avoid strong oxidants and high shear conditions.

7. Quality & Documentation Support

- Product specification sheet
- Certificate of Analysis (COA)
- Safety Data Sheet (SDS)
- Customized technical documentation

8. Packaging & Storage

Standard packaging is available in 25 kg bags with PE inner liner. Customized packaging solutions are available according to customer requirements. Store in a cool, dry place away from moisture and direct sunlight.

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