POLYAMINE

CATIONIC COAGULANT | LIQUID GRADE

PolyAmine · CAS 39660-17-8 · Cationic polyamine (TDS-aligned)

Colorless to light yellow liquid: water-soluble, stable, low-odor formulation for coagulation and charge management in water treatment and papermaking—with viscosity-graded product codes to match process.

Product overview

POLYAMINE is a cationic polyamine liquid coagulant supplied as a colorless to light yellow, low-odour, water-soluble solution. It is used to neutralize anionic colloids, improve clarification, and support dewatering in municipal water, industrial wastewater, oilfield produced water, and papermaking systems.

> *Typical solids about **50 ± 1%**; multiple viscosity grades (product codes) align with different mixing intensities and retention times—jar test to set dose.*

Reported thermal data include an endothermic transition around 32–39 °C and decomposition near 200 °C (reference TDS). The product is classified as stable with good tolerance to heat, pressure, and shear in application, and is not strongly pH-sensitive within common operating ranges. Dilute **10–40×** before use per supplier guidance.

Typical applications (TDS)

- Coagulant in drinking water treatment, sewage purification, and related clarification trains
- Oily wastewater in oilfield operations and mining / drilling streams (duty- and chemistry-dependent)
- Anionic trash catcher in papermaking white water (charge neutralization of colloidal fines)

RECOMMEND DOSAGE (TDS)

Dilute **10–40×** before use. In printing and dyeing wastewater at about pH 7–10, typical addition is on the order of **2–10 kg** of prepared solution (scale to plant trial data).

Indicative product data

Values aligned with supplier TDS; confirm grade, viscosity band, and lot data on CoA.

PROPERTY	NOTES
CAS No.	39660-17-8
Appearance	Colorless to light yellow transparent liquid
Solid content	50 ± 1%
pH	4–7
Typical packaging	200 kg PE drum / 1000 kg IBC tank

Grade codes & viscosity (cps, TDS)

CODE	VISCOSITY (CPS)
AC0021	50–100
AC0022	100–300
AC0023	300–600
AC0024	600–1000
AC0025	1000–3000
AC0026	3000–6000
Other	According to your request

Storage & transportation: Pack and store sealed in a cool, dark, dry place; avoid strong oxidants. Shelf life up to **two years**; transported as non-dangerous goods.

*Always verify lot-specific values, regulatory data, and dosing response against supplier documentation.

Request specifications & samples

Share water chemistry, turbidity / oil load, and process layout so the appropriate POLYAMINE viscosity grade and trial plan can be proposed.

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