

Anionic Polyacrylamide Technical Information

GENERAL

Product name	ANIONIC POLYACRYLAMIDE, PAM for short of Polyacrylamide
Applications	Works as a flocculant and/or coagulant for mineral processing Other varied applications
Sales representative	LMS Canada

CHEMICAL INGREDIENT

Main ingredient CH₂CHCONH₂)_n polymer
Single M.W. 69.08, table below gives the number of molecules (n) in a chain of all brands:

Brand	Number of molecules	Brand	Number of molecules
TRP-P-1	1 – 3 million	TRP-P-5	15 – 17 million
TRP-P-2	4 – 6 million	TRP-P-6	18 – 20 million
TRP-P-3	7 – 9 million	TRP-P-7	21 – 23 million
TRP-P-4	10 – 14 million	TRP-P-8	24 – 26 million

Purity grade Industrial, content of the polymer ≥ 88%, residual single molecules ≤ 0.1%

TECHNICAL DATA

Physical state	Solid
Appearance	Colorless or white granular powder
Odour	None
Melting point	Approx 200 °C (Decomposes)
Solubility	20 – 30%
pH value	Approx 6.0, suitable for processing materials with pH value of 7 - 14
Bulk density	Varies with granular size and moisture content. For rough calculation purpose: approx 0.7g /cm ³
Chemical stability	Stable
Incompatibility with other substances	Flammability may be enhanced by presence of strong oxidizers. Swells enormously and becomes much heavier when material absorbs water, mechanical bursting hazard may occur in the process.
Reactivity, and under what conditions	May emit acid fumes once heated to decomposition.

PACKAGE & STORAGE

Package & storage	Nylon woven bag with plastic lining or paper-plastic bag. 25kg per bag. Proper metal containers may be obtained on request, but aluminum and galvanized containers and equipment should be avoided. Store material in dry and cool area and away from oxidizers. Bags may be stacked no more than 20 layers.
Theoretic shelf life	Two years while stored properly.

TOXICOLOGICAL PROPERTIES

Refer to MSDS of product.

Note: The information above is based on technical data provided by the manufacturer and those publications available. It is subject to change or update without notice.