

# POLYELECTROLYTE WATER-SOLUBLE CATIONIC FLOCCULANT BRAND VPK-402

TU 2227-184-00203312-2012  
revision 1



## Technical properties:

Indicator description	Norm
Appearance	Colorless to yellow homogeneous fluid without foreign matter
Mass fraction of basic substance, %, min	25
Mass fraction of sodium chloride, %, max	13
Mass fraction of residual monomer, %, max	0.5
Kinematic viscosity of polyelectrolyte solution with a mass fraction 1%, mm <sup>2</sup> /sec, min	2
pH	4 – 8

### APPLICATION

It is used as a flocculant and coagulant for the following purposes:

- intensification of processes of water treatment for deposition of fluidized particles, active slime, it provides an effective clearing of turbid waters;
- dehydration of deposits of urban and industrial sewage;
- compaction of deposits on slime platforms;
- for treatment of natural water and sewage of coalpreparation plants, lacquer and paint plants and refineries;
- for clearing of industrial sewage from mineral contamination;
- clearing of antibiotics solutions in medical industry.

Polyelectrolyte VPK-402 is used for purification of drinking water in domestic water supply.

Polyelectrolyte VPK-402 can be used independently and in combination with coagulants.

### METHOD OF PRODUCTION

It is a cationic polymer of linearly-cyclical structure with high molecular weight, produced by radical polymerization of dimethyl diallylammoniumchloride, which is in turn is produced from allylchloride and dimethylamine by heating in alkaline medium.

### SAFETY REQUIREMENTS

Polyelectrolyte VPK-402 is non-flammable, non-explosive, low-toxic. Polyelectrolyte VPK-402 belongs to 4st class of hazard regarding its effect on body.

### CERTIFICATION

The product has the certificate for application in technological processes of oil production and oil transportation.

Expert statement of Federal state budgetary institution «Research Institute of human ecology and environmental hygiene named after A.N. Sysin» is issued for use of the reagent for intensification of wastewater treatment processes in oil refining industry, for purification of drinking water in domestic water supply

### PACKING

Polyethylene drums up to 227 dm<sup>3</sup>. The product can be filled into consumer's container. The product is transported by rail tank cars.

### TRANSPORTATION

By rail, road transport in roofed means of transportation.

### GUARANTEED SHELF LIFE

One year from the date of manufacture.

Polyelectrolyte VPK-402 should be kept in closed container with enamel or polymer coating or in stainless steel container in clean and dry warehouses at temperature not above +40°C.

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