



ROHMIN™ 4268

Dispersion and Stabilization Enhancer Polymer

Description

ROHMIN™ 4268 dispersion and stabilization enhancer polymer is a high performance modified acrylic acid water-soluble polymer. It was specially designed to be used as an additive in the selective separation of sulphide minerals. Anionic polymer ROHMIN™ 4268 is suitable for improving the dispersion and depression of hydrophobic non-sulphide gangue minerals as carbonates, talc and silicates. In combination with usual flotation chemicals as collectors, frothers and depressors it enhances the metallurgical recovery in copper/molybdenum systems. ROHMIN™ 4268 also controls the pulp rheology of mineral ore slurries by reducing the viscosity of concentrate solids pulps, increases the efficiency of grinding and consequently decreases the water consumption and energy usage.

Typical Properties

ROHMIN™ 4268	Result
Appearance	Clear*, light amber solution
Chemical nature	Anionic polymer, sodium salt
Total solids (%)	45
pH as is (at 25°C)	7.0
Density (at 25°C)	1.3 g/cm ³

These properties are typical but do not constitute specifications.

* A slight haze may appear; this does not affect the intrinsic properties of the product or its performance.

Benefits

The use of ROHMIN™ 4268 results in:

- Improved concentrate grades and recovery of value minerals
- Better separation of gangue contaminants
- Low viscosities for high concentrate pulps
- Rapid separation of value minerals

Applications

ROHMIN™ 4268 is recommended to be added into the secondary grinding mill or conditioning stages before flotation cells. It controls the pulp rheology of mineral slurries increasing the efficiency of grinding mill in fine and ultra fine ground mineral ores production by offering lower viscosity to concentrate solids pulp. It also facilitates the operation of flotation cells with higher concentration pulps from typical 30% to a maximum of 50% solids.

Dosage

ROHMIN™ 4268 is effective at typical dosage between 200 g/ton to 500 g/ton depending on the nature of the minerals ores and the operating conditions being used. For more technical details, contact your local Dow sales representative.

Regional Availability

ROHMIN™ 4268 is available only in selected geographical regions. Check with your local Dow representative for availability in your area.

Storage

Freezing or long-term cold storage of ROHMIN™ 4268 dispersion and stabilization enhancer polymer may cause some separation of the components. Although product performance is not impaired as long as the whole container is heated and well mixed, it is recommended to keep ROHMIN™ 4268 from freezing.

Handling Precautions

Before using this product, consult the Material Safety Data Sheet (MSDS)/Safety Data Sheet (SDS) for details on product hazards, recommended handling precautions and product storage.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products—from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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