



## ROHMIN™ 4792

Dispersion and Stabilization Enhancer Polymer

### Description

ROHMIN™ 4792 dispersion and stabilization enhancer polymer is high performance acrylic water-soluble copolymer. It was specially designed to be used as additive in the selective separation of sulphides minerals. Anionic copolymer ROHMIN™ 4792 is suitable for improving the cleaner froth flotation process. Associate with usual flotation chemicals as collector, frothers and depressors it enhances the metallurgical recovery grades in copper, molybdenum, iron and zinc ores.

### Typical Properties

ROHMIN™ 4792	Result
Appearance	Clear*, light amber solution
Chemical nature	Anionic polymer, sodium salt
Total solids (%)	40-44
pH as is (at 25°C)	7.0
Density (at 25°C)	1.3 g/cm <sup>3</sup>

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™ 4792 in copper, iron and molybdenum circuits results in:

- Improve concentrate grades and recovery of value ores
- Lower viscosity pulp which help increase solids content in the cleaner flotation
- Enhance collectors performance with better results when associates with amine and azepine collectors type reducing the consumption of lime
- Rapid separation of value minerals

### Applications

ROHMIN™ 4792 is recommended to be added into conditioning stages of cleaning and re-cleaning flotation cells. The polymer should be used in combination with conventional anionic collectors as xanthates, dithiophosphates and low pH range ammoniac collectors base such as amines and azepines. These results are improving the rate of separation for sulfides ore as resulting an increase from 6% to 9% of copper recovery and 2% of copper, where molybdenum and iron recoveries are also favorable. The copolymer helps increase the pulp concentration from typical values to maximum 30% at column and 50% at mechanical flotation cells with lower viscosities. Additional benefits are saving of water and energy by operating at concentration pulps in whole separation system. It does not interfere in the sedimentation rates of tails.

### Dosage

ROHMIN™ 4792 is effective at dosage between 100 g/ton to 400 g/ton depending on the nature of the minerals and operating conditions being use. For more technical details, contact your local Dow sales representative.

### Regional Availability

ROHMIN™ 4792 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™ 4792 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™ 4792 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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