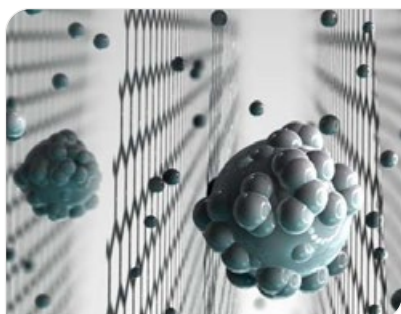


Dewatering aids

Lower moisture for more efficient vacuum filtration and processing



Dewatering is a critical stage of mineral processing where filtration performance directly impacts downstream efficiency. Residual moisture trapped within fine capillaries can limit filtration rates, constrain system capacity, and increase reliance on energy-intensive thermal drying.

By enabling more effective release of water from filter cakes, dewatering aids help improve vacuum filtration throughput, reduce final moisture levels, and support more efficient operation across handling, transport, and drying stages.

Controlling moisture release during vacuum filtration

Dewatering aid chemistry is applied to control how water is retained and released within filter cakes—directly impacting final moisture, filtration efficiency, and downstream energy demand.

Reduction of surface tension

Surface active chemistry reduces surface tension, helping release residual water trapped in fine capillaries during filtration—particularly in difficult to dewater materials.

Improved performance for fine and challenging fractions

Dewatering aids support more effective moisture removal from fine particle fractions that otherwise limit filtration efficiency.

Compatibility across filtration systems

Solutions are designed for use in common vacuum filtration processes, including disc, drum and belt filters, without altering bulk material properties.

Operational outcomes

- Reduced moisture content through more effective release of water trapped in fine capillaries
- Drier filter cakes supporting easier handling, transport, and storage
- Increased filtration rates enabling higher throughput in filtration circuits
- More efficient overall operation across filtration and drying stages that can save energy costs

How this works in practice

Across ores and filtration systems, these technologies enable improved moisture release and filtration performance—demonstrated in real processing conditions.

See the case example on page 2 for results in practice. Evaluate how dewatering aids can improve your efficiency. Start a discussion at nouryon.com/mining/dewatering

Core brands:

- Berol® dewatering aids
- Lankropol® dewatering aids

Case Example: Reducing filter cake moisture across mineral systems

Challenge

Residual moisture trapped in filter cake capillaries limits dewatering efficiency and increases drying demand.

Solution

Berol® dewatering aid reduces surface tension to release capillary-bound water during vacuum filtration.

Proven performance

Tested under vacuum filtration at ~40% solids

- 38% moisture reduction (phosphate)
- 25% moisture reduction (iron ore)
- 14% moisture reduction (calcite)

Impact

- Lower drying energy
- Improved filtration efficiency
- Better handling and transport

Lower moisture enables more efficient downstream processing.

Ore	End moisture, %		
	Without Berol®	With Berol®	Difference
Iron ore	9.1	6.8	25.0
Phosphate	16.2	10.0	38.0
Calcite	11.5	9.9	14.0

Review your dewatering solutions – request technical guidance at nouryon.com/mining/dewatering

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