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# Flotation

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Milling



Flotation



Leaching



Process  
Optimisation



Consulting  
& training



Engineered

**MOLYCOP**  
A **tego** company



## Progress Together

› At Molycop, we partner with our customers to drive efficiency, profitability and sustainability across the mining, mineral processing and rail sectors.

Our comprehensive range of solutions empowers mining operators to unlock performance gains across their entire operations. From high-performance grinding media and advanced milling circuit solutions that optimise comminution operations, to expert flotation and leaching services that maximise mineral recovery, we deliver results that make a tangible difference.

We are committed to continuous improvement – and to improving the performance of every operation we support. Our process optimisation services combine smart control systems and cutting-edge AI visualisation and analytics to give our customers the tools and insights they need to achieve their goals.

Beyond mineral processing, our precision engineered solutions, including robust rail and industrial products, address the needs of critical rail and infrastructure projects.

With our leading technology, reliable global and regional supply chains, and solutions-oriented approach, we partner with our customers to drive operational excellence and sustainable performance – delivering better for all.

## Solutions

Molycop provides a range of innovative solutions that enhance mineral processing performance, improve operational efficiency and support safer, more sustainable mining operations.

### Milling



Molycop's milling solutions maximise efficiency and minimise downtime so customers achieve peak operating performance immediately and over sustained periods. Our range of mining consumables is supported by measurement and control, analytics, and consulting and training services so operations can fully leverage the Molycop solutions available to them.



### Flotation



By combining high-performance collector, frother and modifier chemicals with smart instrumentation, OreVia Process Characterisation and Smart Process Control, Molycop's flotation solutions enable mining operators to optimise mineral recovery, driving measurable improvements in flotation circuit efficiency and profitability.



### Leaching



Customers achieve superior leaching performance with Molycop's range of leaching instrumentation and expert-led solutions. By integrating smart instrumentation, Smart Process Control, data analytics and consulting services, Molycop gives customers the tools and expertise they need to optimise performance and improve mineral recovery.



### Process Optimisation



Molycop's process optimisation solutions combine consumables, smart instrumentation and the StarCS suite – including MillStar, FloatStar and LeachStar – with advanced analytics, data visualisation and expert consulting services. Together, these capabilities give mineral processing operations the opportunity to achieve long-term improvements in recovery and profitability.



### Consulting and Training



With years of collective experience as a foundation, Molycop's industry-leading experts deliver consulting services and training courses, both onsite and on-demand, to improve the performance of customers' operations and upskill their staff.



### Engineered



Backed by over a century of expertise, Molycop's engineered solutions keep Australia's rail and industrial sectors moving. From heavy-haul and passenger rail wheels to axles, track wheels, gear blanks and anode pins, our rail and niche engineered solutions are designed to optimise performance, minimise maintenance and maximise operational reliability.



## Maximise recovery with Molycop's flotation solutions

From advanced flotation chemicals to digital optimisation, Molycop delivers flotation solutions focused on stability, data-driven insights and continuous performance improvement.

› **Flotation performance** requires a coordinated system that aligns chemistry, measurement and control. Molycop approaches flotation as an integrated discipline, delivering solutions designed to improve recovery, stabilise operations and provide technicians with clear, real-time insights into circuit performance.

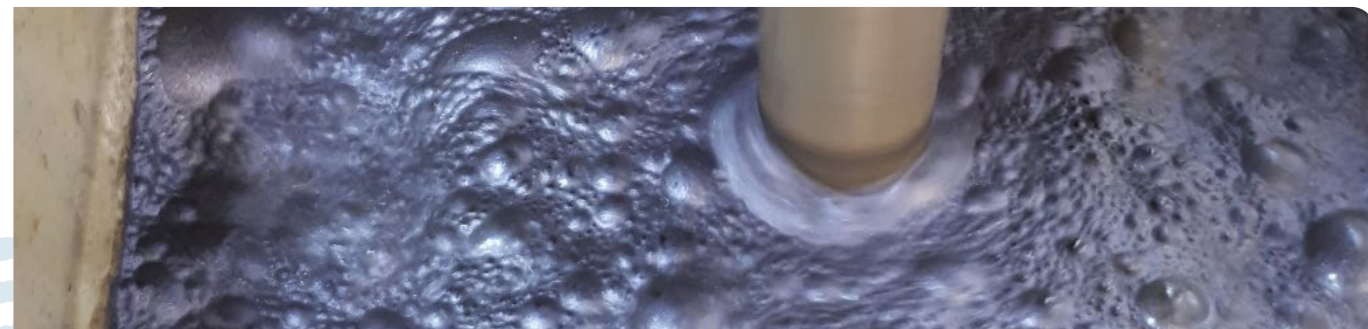
### Chemicals adapt to ore variability

Molycop manufactures and distributes a wide range of flotation chemicals – including carefully formulated collectors, frothers and modifiers – that improve the selectivity and efficiency of mineral separation, resulting in higher recovery rates of ores.

Molycop's chemical solutions can be tailored to suit customer requirements, ensuring cost-effective flotation and increasing productivity in the mineral extraction process. Because ore characteristics can shift over time, reagent strategies are supported by ongoing testwork and optimisation, ensuring flotation performance remains aligned with changing feed conditions.

### Accurate measurement with LTM Level Probe

Reliable measurement is fundamental to flotation stability. Molycop's LTM Level Probe provides continuous, accurate pulp level data, enabling plant operators to maintain optimal operating conditions within flotation cells. By improving level control, operators are equipped to enhance froth stability and maintain consistent recovery across the mineral processing circuit.



### Real-time froth insights with OreVia Froth

Understanding froth behaviour is critical to effective flotation control. Molycop's OreVia Froth technology uses advanced cameras to track froth pulp velocity and froth stability, and convert visual data into actionable insights. By continuously analysing froth behaviour, operators have the ability to make immediate adjustments to improve recovery rates, reduce reagent consumption and stabilise plant operations.

### Integrated plant control with Smart Process Control

To maintain consistent performance, flotation circuits must be actively stabilised. FloatStar provides automated control strategies that continuously adjust operating variables to keep the circuit within optimal ranges. The result is reduced variability, improved metallurgical performance and greater operational predictability.

Beyond flotation-specific control, Molycop supports plant-wide optimisation through StarCS and its General Control Services. These solutions ensure that flotation circuits are fully integrated with upstream and downstream processes. By integrating control strategies across the plant, operators achieve greater efficiency, improved coordination and enhanced overall performance.

### Insight-driven optimisation

Molycop's flotation services are underpinned by the expert knowledge of leading technical applications engineers.

Using laboratory testing, mineralogical analysis and circuit diagnostics, Molycop builds a detailed understanding of customers' ore behaviour and system dynamics. The insights they gain inform reagent selection, control strategies and operational adjustments, ensuring every element of the flotation system works in harmony.

Complementing its technology portfolio, Molycop delivers comprehensive consulting and training services to ensure sustained operational improvement. Molycop's experts collaborate with site teams to analyse performance data and refine circuit design. Training programs are hands-on and tailored to each operation, equipping personnel with the knowledge, skills and tools they need.

### Partnering for sustained performance

Molycop empowers its customers to achieve more than incremental gains. By integrating chemistry, instrumentation, analytics and expertise into a cohesive solution, Molycop empowers mineral processing operations to maximise recovery, enhance efficiency and unlock the full value of their resources.

## Molycop Solutions



**Increase throughput** with step-change improvements in mineral processing efficiency.



**Increase recovery** with high-quality flotation chemicals and smart instrumentation services.



**Improve energy efficiency** by integrating control strategies across the flotation circuit.

# Products and services for flotation processes

Optimise flotation circuits and mineral recovery with Molycop's comprehensive range of flotation chemicals, smart instrumentation, cutting-edge Process Characterisation technology and data-driven expertise.

## Chemicals

Molycop offers a range of high-performance chemicals to enhance the efficiency of flotation processes, including collectors, frothers and modifiers. These chemicals play critical roles in maximising mineral recovery:

- **Alcohol-based frothers:** Deliver excellent mineral recovery and selectivity.
- **Glycol-based frothers:** Suit a broad range of mineral recovery applications for medium-to-coarse particles.
- **Tailor-made frothers:** Promote mineral recovery in coarse-to-medium particle size flotation systems.
- **Xanthate Replacement collectors:** For easy-to-treat ores where selectivity isn't an issue.
- **DTP/MTP collectors:** Used for selective flotation of copper and other precious metals.
- **Thionocarbamates collectors:** For the flotation of copper sulfide minerals at acidic pH.
- **Specialty Blend collectors:** Optimise formulations when a synergistic pair or trio of reagents has been found.
- **NaSH Replacement modifiers:** Offer a safer, more environmentally friendly alternative to NaSH.
- **Depressant modifiers:** Prevent collectors from adsorbing onto a mineral.
- **Dispersant modifiers:** Reduce gangue particles to obtain a purer concentrate.

## Smart Instrumentation

Molycop's advanced instrumentation suite includes **LTM Level Probe**, which provides accurate level measurements across various applications – including flotation banks, individual flotation cells or in concentrate sumps – to provide a consistent and accurate pulp level.

The unique measuring principle of the LTM Level Probe allows it to measure the slurry level and ignore the froth component of the flotation cell.

## Process Characterisation

**OreVia** is Molycop's holistic approach to Process Characterisation. It combines advanced laboratory testing

with data-driven analytics to provide a comprehensive view of ore mineralogical and physical properties.

Installed above flotation tanks, **OreVia Froth** enables real-time measurement of flotation froth velocities on individual flotation cells. OreVia accurately detects froth pulp velocity, monitors bubble size and reports flotation anomaly conditions to maximise mineral extraction efficiency.

The system integrates seamlessly with existing control systems and offers remote monitoring features.

## Smart Process Control

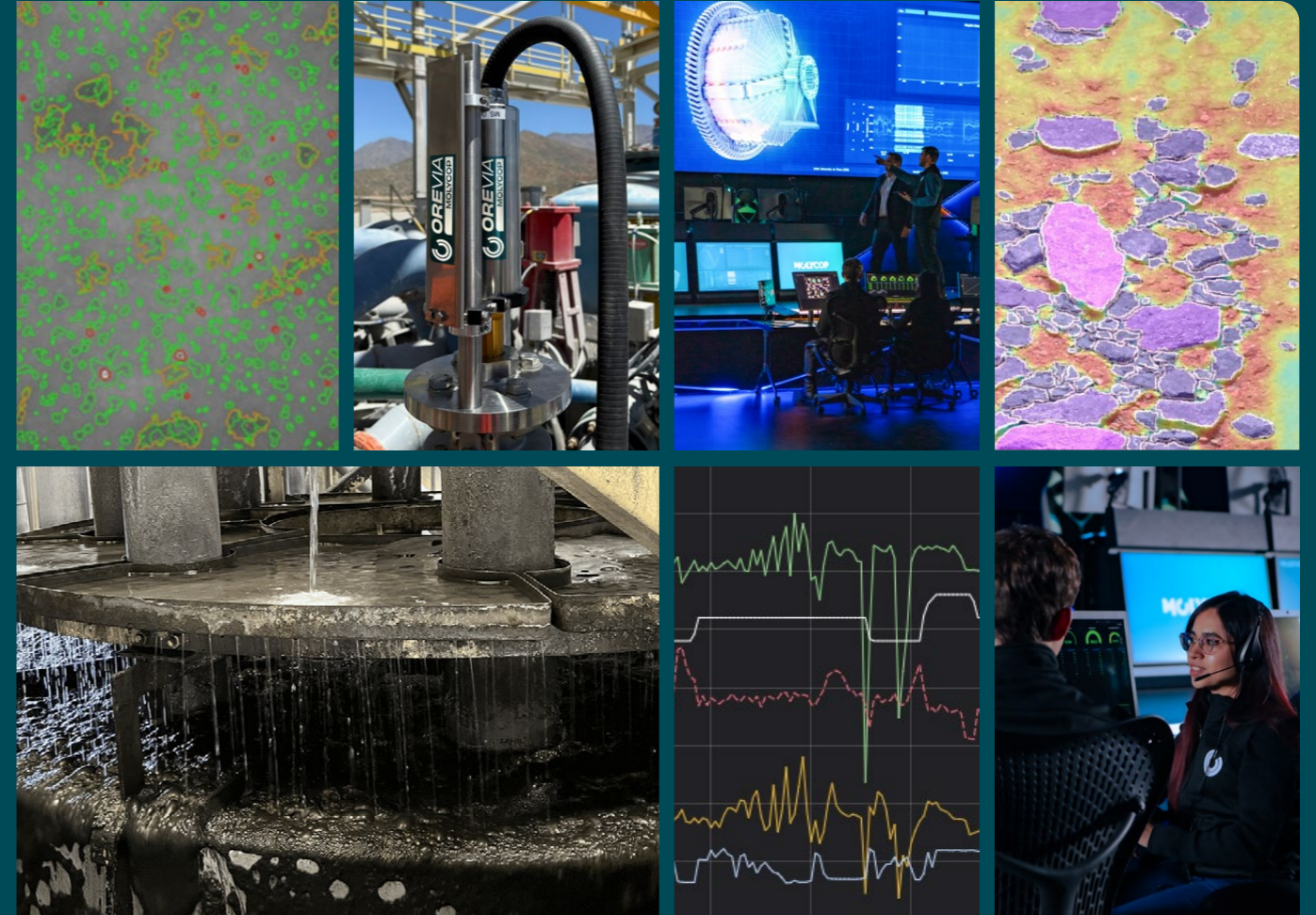
Molycop partners with Mintek to provide Smart Process Control systems for customers:

- **StarCS:** An open, plant-wide control platform for improving process stabilisation. It incorporates the **FloatStar** control module, which is designed to overcome design-related limitations and maximise circuit performance.
- **General Control Services:** Integrate with advanced process control solutions to optimise plant operation.

## Consulting and Training

Molycop equips mining professionals with the skills they need to monitor, model and maximise the performance of their flotation circuits. Molycop's range of educational services includes:

- **Consulting services:** Molycop's specialised **metallurgical laboratory testing services** enables customers to unlock greater value in mineral extraction. Molycop also conducts **industrial testing** to compare frothers, indirectly test depressants, and measure bubble size distributions and superficial gas velocity. Customers can embed successful mineral processing operations with Molycop's expert **mine start-up services**.
- **Training services:** Upskill members of staff by equipping them with the skills and certifications they need to reach their potential.



## Molycop's full range of Products and Services:

Milling	Flotation	Leaching	Process Optimisation	Consulting and Training	Engineered
Grinding Media	Chemicals	Smart Instrumentation	Smart Process Control	Consulting	Rail Wheels
Bolts	Smart Instrumentation	Smart Process Control	Consulting and Training	Training	Axles
Smart Instrumentation	Process Characterisation	Consulting and Training			Track Wheels and Gear Blanks
Process Characterisation	Smart Process Control				Anode Pins
Smart Process Control	Consulting and Training				
Consulting and Training					

For Molycop's Solutions in detail, visit us online:



# MOLYCOP

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