

OPTIORE™ COAL PROCESSING SOLUTIONS

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Optimised flotation reagents for coal processing. Boosting recovery and quality.

Coal remains a vital energy source in today's world, powering industries, generating electricity, and providing heating. Beyond energy, coal is indispensable for steel and cement production, driving the infrastructure of modern society.

Efficiently separating valuable coal from impurities such as ash and sulfur is essential in coal processing. Coal flotation plays a key role in maximising coal recovery, enhancing its quality by removing impurities, and increasing its environmental and economic value.

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OPTIORE™

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Boost recovery and coal quality with OptiOre™ coal flotation reagents.

OptiOre™ C5000 series Collectors

OptiOre™ C5000 series is Orica's range of coal wash flotation collectors. Our collectors are designed to enhance the hydrophobicity and flotation performance by increasing the contact angle between coal particles and air bubbles within the slurry.

Compared to traditional hydrocarbon-based collectors such as diesel and kerosene, our formulations provide improved selectivity and higher coal recovery at a lower reagent dosage.

OptiOre™ F5000 series Frothers

OptiOre™ F5000 series is Orica's range of coal wash flotation frothers. Our frothers are designed to optimise bubble size and froth stability, reducing slotting, and ensuring efficient particle-bubble attachment for improved coal recovery. By controlling bubble coalescence, our formulation help balance selectivity and recovery, minimising entrainment of impurities.

Our frothers are also formulated with a high flash point to enhance safety by reducing fire and explosion risks, ensuring safer handling, storage, and use compared to conventional options such as MIBC.

Why choose OptiOre™ Coal Processing Solutions?

Enhanced recovery and coal quality

- Increase the recovery rate of fine coal, at the same target ash content.

Optimised dosage

- Achieve improved recovery with lower dosage compared to conventional coal flotation reagents

Wide range of applications

- Suitable for flotation of various coal types including difficult to process coal

Safety

- High flashpoint and low volatility reduces flammability risks, ensuring safety during handling, transport, and use

Environmental

- Derived from bio-based materials with low volatility and aquatic toxicity, minimising VOC emissions and impact on water bodies compared to traditional alternatives

To learn more about OptiOre™, please contact your local Orica representative, or visit our website at [orica.com](https://www.orica.com), or [scan the QR code](#)



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