Metakaolin: enabling decarbonised green cement

LB Minerals introduces global eco-innovations to Western Australia

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Cement manufacturing accounts for 2.4 billion tons of CO_2 annually, accounting for 8% of global carbon emissions - a number that puts the green transition at risk.

As impacts of climate change intensify and ESG standards transition into mandatory requirements, it is crucial for high-emission industries to take decisive action to meet their climate targets.

While total CO_2 emissions from the cement sector have been rising since 2015, the Australian industry has been ahead of the curve for decades, already reducing sector emissions by 25% since 2000. Industry leaders are still committed to achieving decarbonisation by 2050, but they require realistic, viable solutions to reach the next level.

Metakaolin: a sustainable substitute for reducing cement CO_2 emissions

Metakaolin is a superior alternative to clinker, a material which produces substantial emissions during the manufacturing of cement.

Studies show that using metakaolin will reduce CO_2 emissions of cement production by 30-40%. Metakaolin is derived from kaolin clay, which has plenty of reserves across the state.

An opportunity to lead in decarbonised cement manufacturing with LB Minerals

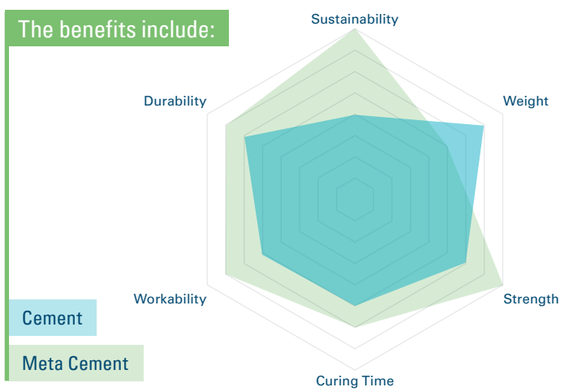
At LB Minerals, we're leading the way with the Deep White Kaolin project and introducing the eco-innovations of our European parent company, the Lasselsberger Group, to the Western Australian market.

The project is planned for a site in Meckering, where we have found an abundant resource of raw kaolin. Our team will refine this mineral into enriched kaolin and metakaolin - the product that will transform the cement industry's carbon footprint.

- Green cement substitute
- 40% CO_2 reduction
- 69mt available kaolin
- Currently no Australian production

Sustainability without compromise

Eco-alternatives often come with trade-offs, such as a higher price or reduced durability. Metakaolin stands out by enhancing the properties of cement offering both environmental and performance benefits.



Learn more about the potential of metakaolin

For further information about our upcoming Deep White Kaolin project or insights into the future of cement manufacturing, please get in touch.

LB MINERALS
lasselsbergergroup

office@lbminerals.com.au

+61 8 6110 3689

www.lbminerals.com.au