



Product & Services Brochure





BME'S FOOTPRINT



We have a footprint in:

Africa

South Africa, Lesotho, ESwatini, Botswana, Zimbabwe, Namibia, Zambia, Mozambique, Tanzania, DRC, Sierra Leone, Guinea, Senegal, Mauritania and Mali

International

Indonesia, Australia, USA and Canada

ABOUT BME

Since 1984, BME has been a leader in the mining industry, delivering expert solutions in commercial blasting while continuously expanding our capabilities. Drawing on decades of experience, we provide a complete range of blasting and mining chemical processing solutions to a global customer base. As part of the JSE-listed Omnia Group, we've become a trusted partner for those seeking innovative, reliable, and sustainable solutions.

Our two key divisions – **BME Blasting Solutions**, focused on explosives and initiation systems, and **BME Metallurgy**, offering mining chemicals and metallurgical processing – combine long-standing expertise with cutting-edge technology. This allows us to deliver tailored solutions across the entire mining value chain, from rock-breaking to mineral recovery, enhancing performance and efficiency.

BME Metallurgy is a trusted provider of mining chemicals, metallurgical reagents and technical solutions that support customers across the mining value chain. We partner with mining operations to unlock greater value through improved mineral recovery, enhanced plant performance and more sustainable operations.

Our comprehensive offering spans the full process from comminution support, flotation, leaching, precipitation, solvent extraction, ion exchange, solid-liquid separation and metal refining. Backed by strong technical expertise and reliable supply capability, we deliver solutions that are practical, effective and aligned to each site's unique operating environment.

With deep process knowledge, advanced technologies and strategic global partnerships, BME Metallurgy supports producers of precious metals, base metals, battery minerals and critical metals with fit-for-purpose solutions that drive measurable outcomes.

More than just a chemical supplier, BME Metallurgy is a technical partner to our customers — providing reagent supply, process optimisation, laboratory support, SHEQ services and ongoing operational guidance to help maximise profitability while managing risk responsibly.

With over 40 years of industry experience, we've established a strong presence in key regions such as Africa, Australia, Canada, and Indonesia, supported by our extensive infrastructure and secure supply chains. We work closely with our customers, forming partnerships that optimise safety, profitability, and sustainability in their operations.

Our purpose follows on from the Omnia Group purpose of, 'Innovating to enhance life, together creating a greener future' for all of our customers and the environments in which we operate.

		Agriculture
		Chemicals
		Mining



BME METALLURGY

Innovative Solutions for Enhanced Mineral Recovery

In the fast-evolving mining industry, outdated chemical processes can pose serious challenges – driving up costs, increasing hazards, and limiting mineral recovery potential. Plant engineers are often left navigating complex hurdles without access to innovative solutions that deliver real value.

At BME Metallurgy, we are redefining mineral recovery with advanced, sustainable solutions that maximise ore value while reducing environmental impact and operational costs. As the demand for efficient, safer chemical processes grows – especially with the rise of renewable energy technologies – our expertise ensures mining operations are equipped to meet these challenges head-on.

Our Comprehensive Offering



Manufacturing

We provide a versatile range of Nickel- and Lead-based assay fluxes, crafted to support precise mineral analysis. Our facilities also specialise in developing custom formulations tailored to your unique operational requirements.



Technology

Our team of expert metallurgists and product specialists deliver advanced solutions across mineral processing, hydrometallurgy, pyrometallurgy, and biometallurgy, helping you optimise metal extraction and recovery efficiency. With specialised technology offerings – including chemical handling and dosing systems, customised chemical formulations, and end-to-end supply chain solutions – we streamline operations and drive performance.



Safety First


At BME Metallurgy, safety is non-negotiable. From rigorous route risk assessments and driver accreditation to specialised chemical handling training, we prioritise the safe and reliable delivery of every product. Our SHERQ standards ensure peace of mind with every drop and gram we supply.



Reliable Supply Chain

An efficient supply chain is critical to seamless operations. We deliver on time, every time, thanks to our strategic warehousing and logistics capabilities. By mitigating the risk of stock-outs and ensuring product availability, we empower our customers to focus on core business operations without disruption.

Process Innovation

-  **Solvent extraction optimisation.**
Colloidal silica removal with DEHSCOFIX SC® 12.
-  **Alternative diluent solutions.**
-  **Frother formulations.**
Technologically advanced, made to purpose.
-  **Preg-robbing solutions.**
For gold.
-  **Activated carbon.**
For gold absorption. High quality, from green production process.
-  **Acid mist suppressant.**
Environmentally friendly.
-  **Cobalt hydroxide purification.**
Uranium removal.
-  **Membrane technology.**
Nano-filtration for reagent recovery. Reverse osmosis for process water purification and recovery.

Partner with BME Metallurgy

We combine innovation, safety, and efficiency to offer tailored solutions that address your unique mineral recovery challenges. Discover how our innovative products and expertise can help you achieve sustainable, optimised results for your operation.



PRODUCT LIST

A

Acetic Acid
Acetone
Activated Carbon (Haycarb)
Adipic Acid
Aluminium Sulphate
Aluminium Nitrate
Ammonium Bisulphate
Ammonium Chloride
Ammonium Hydroxide
Ammonium Nitrate
Ammonium Sulphate
Ammonia Anhydrous
Anthraquinone

B

Barium Carbonate
Barium Chloride
Barium Hydroxide
Barium Sulphate
Bentonite
Benzene
Borax (sodium borate)
Butylated Hydroxy Toluene

C

Calcium Carbonate
Calcium Chloride
Calcium Hydroxide (hydrated lime)
Calcium Hypochloride (HTH)
Calcium Nitrate
Calcium Oxide
Carboxy Methyl Cellulose (CMC)
Citric Acid
Cobalt Sulphate
Copper powder
Copper Sulphate
Coagulants

D

Degreaser (Solvent)
De-ionised Water
Diatomaceous earth
Di-ethylene Tri-amine (DETA)
Diethylhexyl phthalate (DEHP)
Diluents
Dispersants
Depressants

E

EDTA (Ethylene Diamine Tetra Acetic acid)
Ethanol

F

Ferric Chloride
Ferric Sulphate
Ferrous Sulphate
Ferro Silicon
Flocculants
Flotation Reagents
Fluorspar
Flux
Formic Acid

G

Glycerine
Guar Gum

H

Hexamine
Hibatex
HTH
Hydrochloric Acid
Hydrofluoric Acid
Hydrogen Peroxide

I

Ion Exchange Resins
Iron Powder
Isodecanol
Iso Propyl Alcohol (IPA)

K

Kerosene

L

Lead Assay Litharge
Lead Nitrate
Lime:
- Anhydrous (Burnt/Quick) CaO
- Hydrated Lime Ca(OH)₂
- Limestone CaCO₃

M

Magnesium Oxide
Magnesium Sulphate
Manganese Dioxide
Manganese Sulphate
Methanol
Methyl Ethyl Ketone (MEK)
Methylated Spirits
Mono Ethylene Glycol
Membranes

N

NaHS (Sodium Hydrosulphide)
N-Propyl Alcohol (NPA)
Nickel Carbonate
Nickel Powder
Nickel Sulphate
Nitric Acid

O

Oleic Acid
Oxalic Acid

P

Paraffin
Perchloroethylene
Petroleum jelly
PGAN (Porous Granular Ammonium Nitrate)
Phosphoric Acid
Pine oil
Potassium Di-chromate
Potassium Carbonate
Potassium Chloride
Potassium Hydroxide

Potassium Iodide
Potassium Nitrate
Potassium Pyro antimonate (PPA)
Potassium Permanganate
Potassium Persulphate
Propylene Glycol
Promoters:
- Dithiophosphates (DTP)
- Dithiocarbamates (OTC)

Q

Quaternary Ammonium Compounds (QAC)

R

Resins (Ion Exchange)

S

Silica sand
Silver Nitrate
Sodium Acetate
Sodium Bicarbonate
Sodium Bisulphite
Sodium Bromate
Sodium Bromide
Sodium Carbonate (Soda Ash)
Sodium Chloride
Sodium Chlorate
Sodium Dichromate
Sodium Fluoride
Sodium Formate
Sodium Hexameta Phosphate
Sodium Hydrosulphite (NaSH)
Sodium Hydroxide (Lye/Flakes/Pearls)
Sodium Hypochlorite
Sodium Glucomate
Sodium Metabisulphite (SMBS)
Sodium Metasilicate
Sodium Methylate
Sodium Nitrate
Sodium Nitrite
Sodium Oxalate
Sodium Persulphate
Sodium Silicate
Sodium Silicofluoride
Sodium Sulphate
Sodium Sulphide
Sodium Sulphite
Sodium Thiosulphate
Sodium Tripolyphosphate
Solvents
Solvent Degreaser (sorbitol)
Stearic Acid
Strontium Carbonate
Sulphamic Acid
Sulphur
Sulphuric Acid

T

Tall Oil
Tartaric Acid
Tetra Bromo Ethane (TBE)
Thiourea
Toluene
Trichloroethylene
Tri Calcium Phosphate
Tri-Ethyl Bromide (TEB)
Triethanolemine
Tri-sodium Phosphate

U

Urea

W

White Spirits
Wood flour

X

Xanthates
Xylene

Z

Zinc Chloride
Zinc Nitrate
Zinc Oxide
Zinc Sulphate
Zinc Dust

DEHSCOFIX® Range

Acid mist suppressant;
Carbon blanking reagents;
Colloidal Silica Coagulant;
Dewatering aids;
Dispersants;
Depressants;
Frothers.





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