

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

BME is a member of the Omnia Group, a JSE-listed diversified provider of specialised chemical products and services used in the mining, agriculture and chemicals sectors.

BME is a leader in providing sustainable blasting solutions, mining chemicals and metallurgical solutions for commercial mining applications. Our proprietary blast design software and AXXIS electronic delay detonators deliver precision and accuracy to improve blasting efficiencies and our premium dual-salt emulsion systems further deliver effective blasting to reduce costs. Our products help boost our clients' profitability and safety.

BME's advanced products and services have a positive impact on our customers' environmental footprint.

BME's global footprint extends across Africa, Indonesia, Canada, Australia, and the United States.. Our expertise allows us to rapidly supply and commission emulsion plants and optimise processes in any location.

BME prides itself in providing world-class technical services to ensure that every blast brings value to its customers.

Pursuing growth from the core ammonia and nitrogen value chain



Agriculture



Protea
Chemicals

A member of the Omnia Group

Chemicals

OMNIA



bme

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In the fast-evolving mining industry, outdated chemical processes can pose serious challenges – driving up costs, increasing hazards, and limiting mineral recovery potential.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.

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.



bme
METALLURGY

NAM
80
T

PRODUCT LIST

A

Acetic Acid
Acetone
Activated Carbon (Haycarb)
Adipic Acid
Aluminium Sulphate
Aluminium Nitrate
Ammonium Bisculphate
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 $\text{Ca}(\text{OH})_2$
- Limestone CaCO_3

M

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

N

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

O

Oleic Acid
Oxalic Acid

P

Paraffin
Perchlorethylene
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 Coahulant;
Dewatering aids;
Dispersants;
Depressants;
Frothers.





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