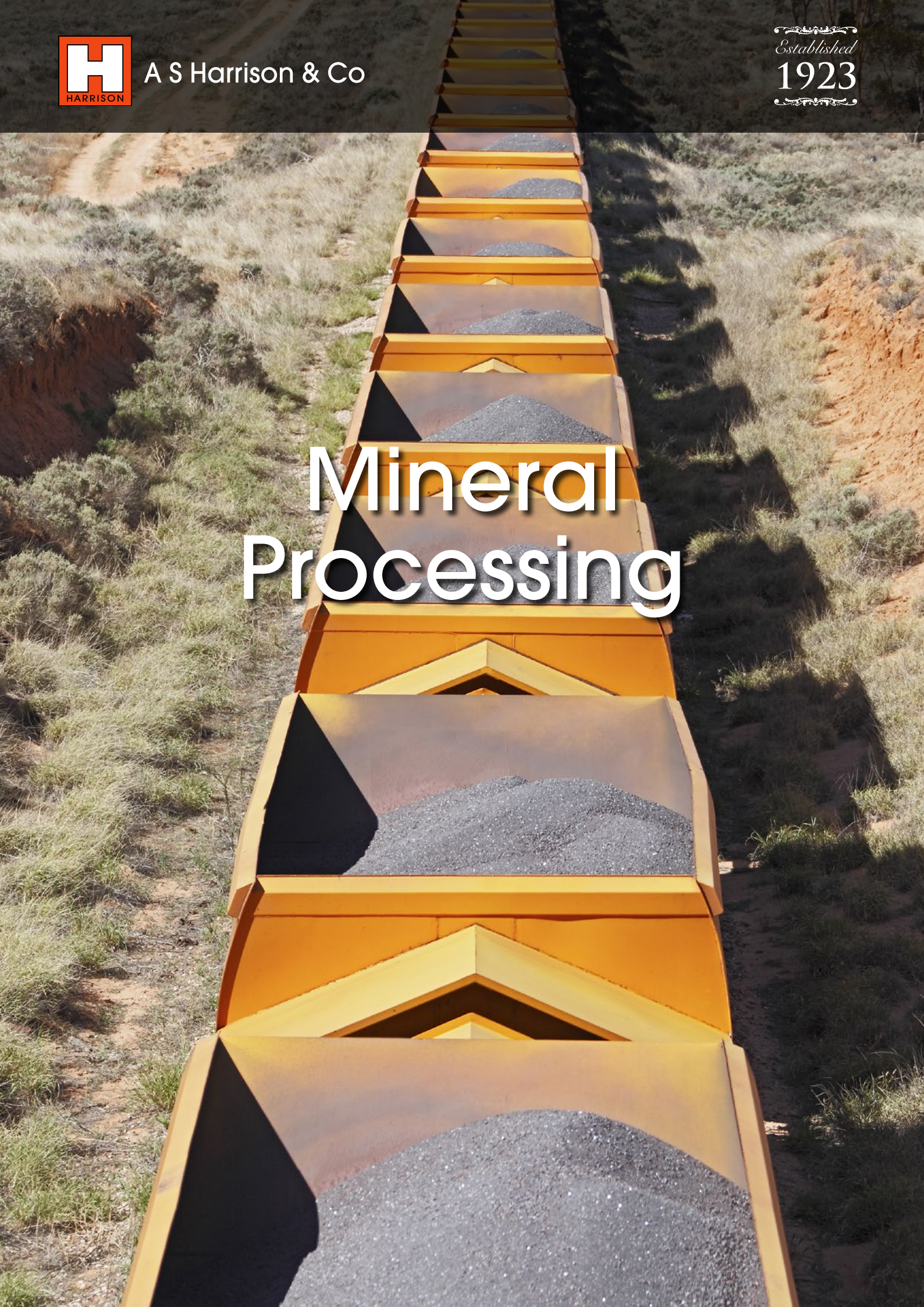




A S Harrison & Co

Established
1923

Mineral Processing



Product	Description	Features	Recommended Applications
FROTHERS			
Dehscofix® FH15	Ester based frother	Dehscofix® FH15 is a selective frother for base and precious metal flotation. It is used as an alternative to methyl isobutyl carbinol (MIBC) and low molecular weight alcohol based frothers. Features are: <ul style="list-style-type: none"> • Produces a mobile, dry froth with low to moderate stability • Performance is comparable to low molecular weight, alcohol based frothers • Provides good flotation circuit control 	Gold, Lead, Zinc, Copper & Coal
Dehscofix® FH30	Ester based frother	Suitable for flotation applications where both selectivity and froth strength are required. Dehscofix® FH30 is an effective alternative to mid-strength glycol ether/propylene glycol based frothers and stronger alcohol based frothers. Features are: <ul style="list-style-type: none"> • Oil-soluble • Good froth depth control and efficient recovery of coarse size particles 	Nickel, Gold, Copper, Industrial Minerals & Coal
Dehscofix® FW31	Alcohol ether based frother	Dehscofix® FW31 is an established industry alternative to mid-strength, intermediate molecular weight glycol ether/propylene glycol based frothers. It is ideal when a balance of selectivity and strength is required.	Nickel, Gold, Copper, Industrial Minerals & Coal
Dehscofix® FW34	Glycol ether based frother	Dehscofix® FW34 is a good alternative to both triethoxy butane (TEB) based and mid-strength alcohol frothers containing small quantities of glycol ethers or polypropylene glycols. It demonstrates a balance between stability and selectivity and can be used for fine or intermediate coarse particle size distributions. Features are: <ul style="list-style-type: none"> • Medium strength water-soluble frother • Ideal for applications requiring intermediate froth stability and good froth depth control 	Nickel, Copper & Iron
Dehscofix® FW53	Glycol ether based frother	Dehscofix® FW53 is a water soluble frother that can improve the recovery of coarse size particles in rougher-scavenger cells. Compared to other higher strength blends, it offers the potential for reduced dosage costs.	Nickel, Gold & Industrial Minerals
Dehscofix® FW55	Glycol ether based frother	Dehscofix® FW55 is a water soluble frother that matches the metallurgical performance of other alternative strong alcohol/polyglycol ether blends while offering potential savings on dosage costs.	Nickel, Gold, Copper, Iron & Industrial Minerals
Dehscofix® FH57	Alcohol ether based frother	Dehscofix® FH57 is an oil soluble frother that can overcome froth resistance and stability problems. It offers potential dosage savings compared to other frothers. Although often used alone due to its strength, it can be combined with other frothers to achieve specific froth characteristics and performance properties.	Nickel, Gold, Copper & Coal
DISPERSANTS			
Dehscofix® DK50	Liquid polymeric dispersant	The DK range of dispersants are a mix of non-ionic, anionic and cationic depressants and dispersants, which are used to facilitate the rejection of clays, silicates carbonates, asbestos and carbon typically found in sulphide ores. Features are: <ul style="list-style-type: none"> • Improve process efficiency by increasing the grade and recovery of flotation concentrate • Can also be used as a slurry viscosity modifier 	Sulphide Ores
Dehscofix® DK51			
Dehscofix® DK55			
DEPRESSANTS			
Dehscofix® DK03	Metal sulphide depressant	The DK range of dispersants are a mix of non-ionic, anionic and cationic depressants and dispersants, which are used to facilitate the rejection of clays, silicates carbonates, asbestos and carbon typically found in sulphide ores. Features are: <ul style="list-style-type: none"> • Improve process efficiency by increasing the grade and recovery of flotation concentrate 	Sulphide Ores
Dehscofix® DK08			
Dehscofix® DK25			
Dehscofix® DK53			
Dehscofix® DK58			
SILICA COAGULANT			
Dehscofix® SC12	Polyether	The SC range of water-soluble polyether coagulants lowers the concentration of colloidal silica and gels in a leach solution. Colloidal silica can cause problems with flocculation, initiating crud formation in solvent extraction (SX), decreasing extraction kinetics and increasing SX phase disengagement times. Our coagulants help to improve process efficiency and reduce organic reagent losses by minimising crud formation.	Colloidal Silica, Crud & fine particles in leach liquors
DE-WATERING AID			
Dehscofix® DA72	Anionic Sulfosuccinate	Is a water-soluble dewatering aid which reduces cake moisture in the filtration of mineral slurries. The de-watering aid gives a more even filtering of water by combining excellent wetting properties with surface tension reduction.	Sulphides, Iron and Coal Concentrates & Tailings

MINERAL PROCESSING

Product	Description	Features	Recommended Applications
CARBON BLANKING			
Dehscofix® DG30	Carbonaceous preg-robbing depressant	The DG range of water-soluble carbon blanking reagents are used in gold leaching processes (CIL/CIP) to prevent preg-robbing by carbonaceous or graphitic material. These products can completely adsorb on to the preg-robbing carbon without any excess left in the solution to impact downstream, resulting in higher gold recovery.	Carbonaceous Gold Ores
ELECTRO WINNING			
Dehscofix® EW900	Acid mist suppressant	Is a water-soluble acid mist suppressant which suppresses the formation of acid mist during electrowinning of copper, nickel and zinc. In the final stage of electrowinning oxygen bubbles form on the anode producing fine acid containing liquid droplets which disperse throughout the workplace as acid mist.	Copper, Nickel & Zinc

DUST SUPPRESSION

Product	Description
PAVECRYL™ 8012	Road dust control (APEO & Ammonia free)
PAVECRYL™ Suppress Plus	Film forming / binding for stockpiles & railcar (APEO free)
PAVECRYL™ Suppress	Film forming / binding for stockpiles & railcar
PAVECRYL™ Suppress AF	Film forming / binding for stockpiles & railcar (APEO free)
ECOSURF™ Series	Biodegradable* non-ionic surfactant. Underground coal mines
TERGITOL™ Series	Non-ionic surfactants

COMMODITY CHEMICALS

Product	Features	Packaging available
Low Heat Cement	Cement Binder	200l drum, 800kg Bulk Bags, 1000L IBC, Bulk delivery
Sodium Cyanide	Depressant	
Sodium Metabisulphite	Depressant	
Sodium Monophosphate	Depressant	
Zinc Sulphate	Depressant	
Anionic Polyacrylamide	Flocculant	
Sodium Ethyl Xanthate	Flotation Collector	
Hydrated Lime	pH Modification	

WATER & CORROSION PRODUCTS

A S Harrison & Co are the Australian representatives for American Water Chemicals & Cortec.

- American Water Chemicals (AWC) - AWC produce anti-scalants & cleaning chemicals for Micro-filtration, Ultra-filtration, & Reverse Osmosis and offer a range of other services such as membrane autopsies, plant modelling and chemical projections.
- Cortec - Cortec provide innovative corrosion solutions by utilising their unique vapour phase & migrating corrosion inhibitor technology.

Please ask A S Harrison & Co for advice on both asset protection and how to achieve operational efficiencies on water assets.

ENGINEERING SERVICES

A S Harrison & Co have a proven commitment to value addition through provision of engineering equipment to enable optimal and trouble-free dosing of additives.

A S Harrison & Co can provide the following services:

- Additive dosing equipment
- Decanting solutions
- Storage solutions

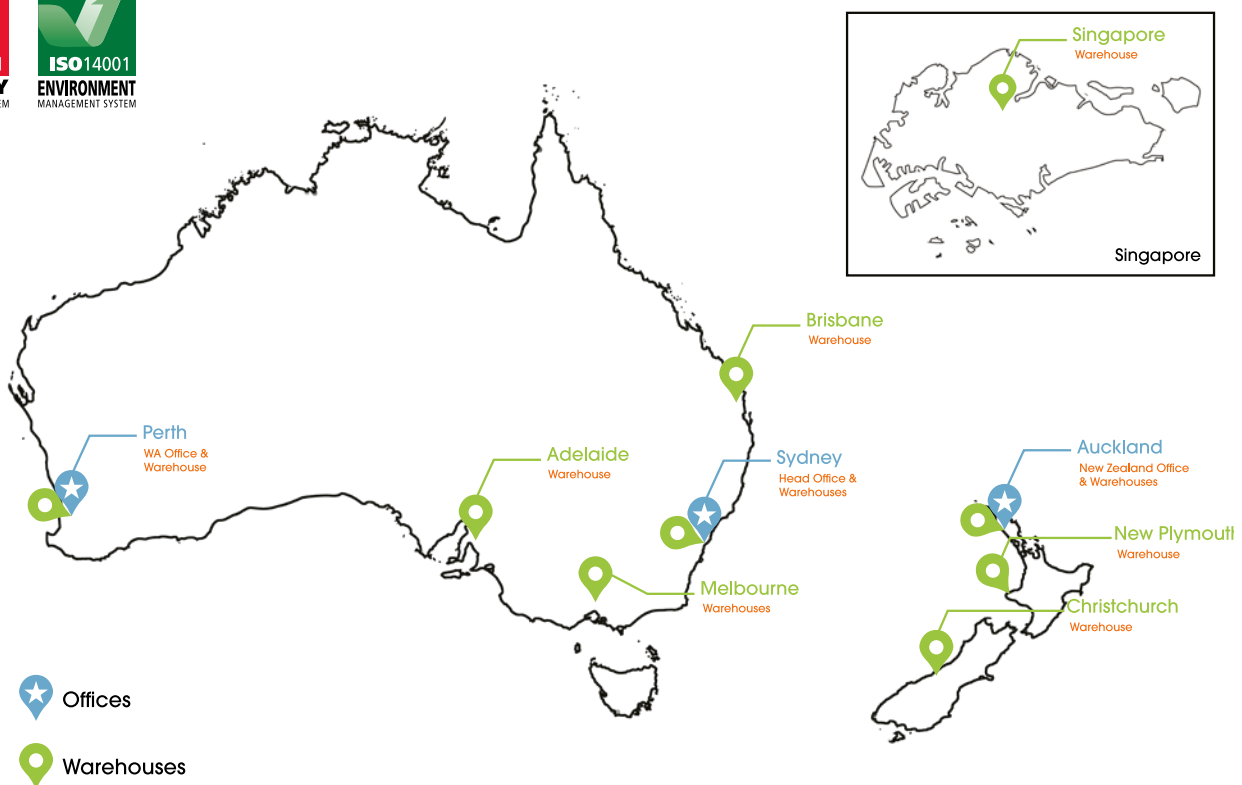
Please contact A S Harrison & Co if you are looking at improving your efficiencies in relation to the dosing of additives, customised pack sizing or storage solutions.

ABOUT US

Established in 1923, A S Harrison & Co is a knowledge-based agency and distribution business. Utilising an extensive warehousing and logistics network, we import and supply a unique portfolio of specialty chemical additives within Australia, New Zealand, the South Pacific and South East Asia.

With proven expertise in Engineering and Marketing services, we provide a full range of support for our customers, ensuring all quality standards are met.

A S Harrison & Co manages Environment, Safety, Health and Quality (ESHQ) through an integrated management system certified to ISO 9001:2015 and ISO 14001:2015 by Best Practice. This also includes an ISO 19600:2015 based compliance management system to maintain regulatory compliance.



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