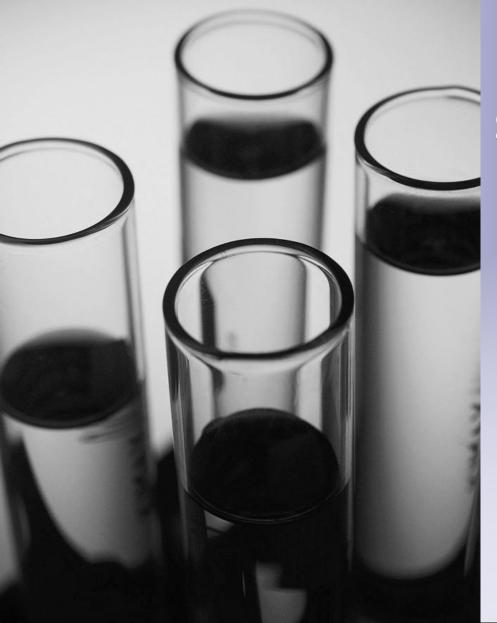
Tal Benett Group FLOTATION SOLUTIONS

CHEMISTRY SUMMARY

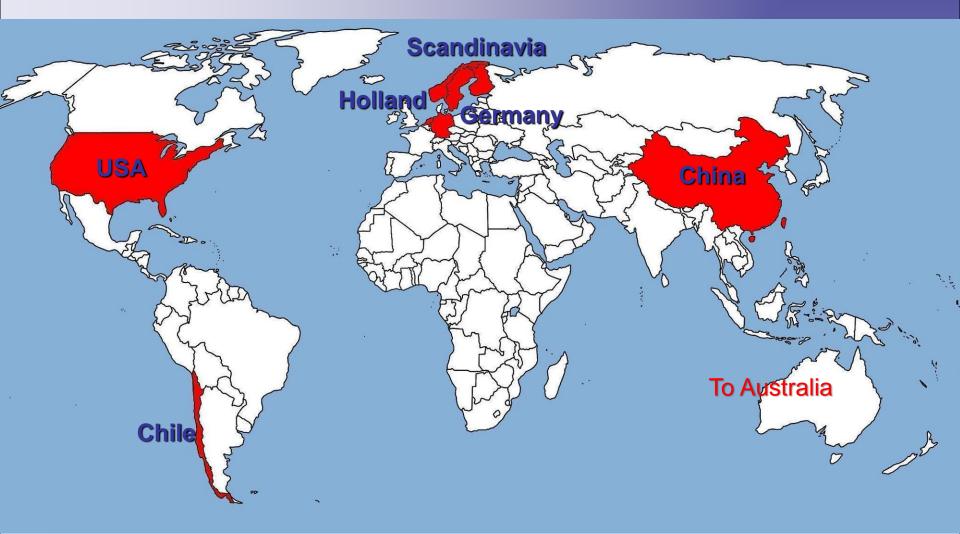


SULPHIDE COLLECTORS

- Dithiophosphates
- Thionocarbamates
- Carbamates
- MBT's
- Other Specialty Collectors
- Blends

	LEINS P.O. LEINS	WINING CORPORATION STRALIAN COMPANY NUMBER 004 184 558 TER OPERATIONS STER, WESTERN AUSTRALIA 6437 37 9005 FACSIMILE: (090) 37 905	TALL BENNETT - 40+ years of operation - Mining customers large & small - Australia and overseas							
LEINSTER OPERATIONS		WESTERN MINING CORPORATI (INCORPORATED IN VICTORIA) WINDARRA NICKEL PROJE A Joint Venture of Western Mining Corpor The Shell Company of Australia Limited severally in the proportions 50% : 50%	ECT ration Limited and responsible only							
PÜR Isa Mine	1.04	7/79 KS/PA	MC (A MEMBER OF TH MOUNT ISA, C 7) 44 2011 MC	CA MINES LIMITED UNT ISA OPERATIONS E MIM HOLDINGS GROUP OF COMPANIES) DUEENSLAND 4825, AUSTRALIA DUNT ISA-TELEGRAMS: 'ISA MINE TELEX: AA 49959	MOUNT ISA					
N	1	30 Terra	NG LIMIT A.B.N. 20 005 68 ace Road, East P lox 6380 East Per	erth, WA 6004			NUMBER 140575			
N			IONS - CA A.B.N. 95 062 64 Bag, PO South Ora e: 02 6392 2300	l8 006 Inge, NSW 2800	ED		NUMBER 481302			
	>>	BGM MANAGEMENT COMPANY PT LEVEL 1, 388 HAY STREET SUBIACO		ABN 45 101 199 731	P Order No: Date:	URCHASE ORDI B07908 06.05.2009	ER Ver: 0001			
	P.O. BOX TABUBIL WESTERI	TEDI MINING I 1 PHONE: 58 3311 TELE N PROVINCE EW GUINEA	EX: NE60106			Tall Benn	ett Grou			

OUR RAW MATERIALS



BLEND INGREDIENTS

Tall Bennett production in China is pollution free and we have recently achieved "Green" accreditation



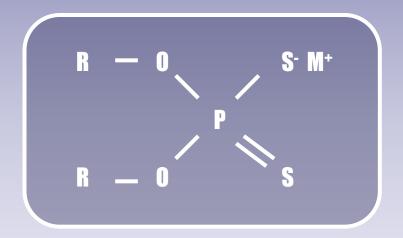
SULFIDE COLLECTORS ESPECIALLY FOR Cu AND Cu/Au FOCUS ON SELECTIVITY & KINETICS

DITHIOPHOSPHATES

A range of sodium salts, potassium salts, ammonium salts & specialty derivatives (Most NICNAS registered)

APPLICATIONS

- Alkyl derivatives for Copper (& Gold) & Zinc
- Aryl derivatives for Lead
- Soluble
- Stable pH 4 to 12
- Best selectivity against pyrite pH >8

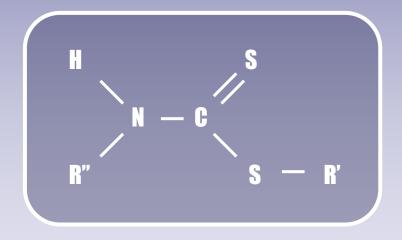


THIONOCARBAMATES

A range of reagents with various chain lengths (Most NICNAS registered)

APPLICATIONS

- Selective for Copper & Gold, or activated sphalerite
- Not soluble
- Best selectivity against pyrite pH >9

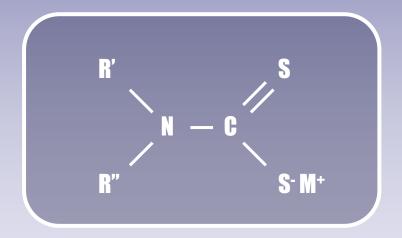


CARBAMATES

A range of reagents with various chain lengths (Most NICNAS registered)

APPLICATIONS

- Selective for Lead, Nickel and Silver
- Not soluble
- Best selectivity against zinc at pH >9

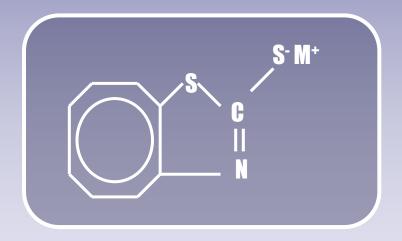


MERCAPTOBENZOTHIAZOLES (MBT)

A range of reagents with various substitutions (Most NICNAS registered)

APPLICATIONS

- Oxidising Copper ores
- Pyrite in acid circuits
- Copper, Lead, Zinc and Nickel in alkaline circuits
- Soluble
- Application as mixture with other collectors



SPECIALTY COLLECTORS

APPLICATIONS: Used for improved selectivity in blends

Thioalkanes

Xanthate esters

Trithiocarbonates

Thioalkane amides

Xanthogen formates

Octyl sulphides

Thiocarbamates

TAILORED SOLUTIONS

FeS₂

S2 CuFeS **CuFeS** CuF CuFeS₂ eS CuFeS₂ u_2S **CuFeS**₂ CuFeS₂ FeS Cì

COLLECTOR A 80%+

COLLECTOR A + B 90%+ COLLECTOR B 80%+

REAGENT DESIGN

Our overall focus is aimed at getting the best result at each individual ore body by blending the various chemistry to optimise results at each site.

SOME EXAMPLES:

Dithiophosphate / dithiophosphate
Thionocarbamate / thionocarbamate
Xanthate / xanthate
Dithiophosphate / thionocarbamate
Dithiophosphate / thionocarbamate / specialties



LEAD-ZINC REAGENT R & D

DEPRESSANT R&D 'TALC' AND CHLORITE DEPRESSION

TRIAL DEPRESSANTS

Quebracho derivatives, amines & other tannins for Pyrrhotite depression

Complex cyanides & cyanates Specialty guar gum derivatives

CMC's

Tall Bennett Group

Mercaptoacetic acid salts

Blends of depressants to optimise individual site results

OXIDE COLLECTOR R&D

Cassiterite, Wolframite, Scheelite and other metal oxide collectors

- Styrene Phosphonic Acid (SPA)
- Sulphosuccinamates
- Carboxylic Acids

Oxidised Copper Collectors

 Hydroximic Acid derivatives



LABORATORY TRIALS



We can provide "standard" reagents for trial work up to **Bank Feasibility** Stage, however, the objective is to always optimise metallurgical results at each individual site.

ECONOMIC ANALYSIS



MINE: DATE: PRODUCT: Cu Au concentrate

Tonnes	Head grades		Std recoveries		Best recoveries		Metal prices		Std Revenue		New Revenue			Variance			Total				
per year	Cu %	Au g/t	Other%	Cu	Au	Other	Cu	Au	Other	\$/tonne	\$/g	\$million / year			\$/year			\$/year			Variance
2000000	1.89	1.20		88	73		90	75		7937	21.4	184.8	33.7	0	189.0	34.7	0	4.2	0.9	0.0	5.1
												0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0.0
												0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0.0
												0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0.0
												0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0.0
												0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0.0
												0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0.0
												0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0.0

Tal Bennett Flotation Reagents

No.