

ABBREVIATIONS

Symbols used in metallurgical reports

Product symbols

A	Anode	L	Liquid	S/D	Solid
C	Concentrate	M	Middling	S/K	Sink
C/E	Calcine	M/A	Magnetic	S/N	Solution
D	Discharge	N	Non-magnetic	T	Tailing
E	Extract	O/F	Overflow	U/F	Underflow
F	Fraction	O/S	Oversize	U/S	Undersize
F/D	Feed	P	Precipitate	#	Mesh (B.S.S.)
F/T	Float	R	Residue	µm	Microns
G	Gas	R/E	Raffinate	+	Retained on screen
H	Head	R/X	Reflux	-	Passed through screen
K	Cathode	S	Spigot		

Operation symbols

B	Batch	H/L	Heavy Liquid Separation
B/M	Ball Mill	H/M	Heavy Media Separation
C	Cyclone or Classifier	H/S	Hydrosizer
C/E	Cradle	I/S	Infrasizer
C/H	Crush	I/X	Ion Exchange
C/L	Column	J	Jig
C/N	Continuous	L	Leach
C/S	Cyclosizer	L/L	Liquid/Liquid Extraction
C/R	Condenser	M	Mixer
D	Tilting Deck or Strake	M/S	Magnetic Separation
D/N	Distillation	P	Panning
D/R	Dryer	P/N	Precipitation
E	Electrostatic Separation	R	Roasting
E/F	Elutriation Fraction	R/M	Rod Mill
E/S	Electrolysis	S	Screening or Sieving
F	Flotation	S/B	Stamp Battery
F/C	Filter or Centrifuge	T	Table
G	Grind	T/R	Thickener
		V	Vanner

Chemical symbols

The normal chemical symbols for the elements and formulae for compounds are used, with the addition of the following:

C.Sn	Cassiterite Tin
S.Sn	Acid soluble tin (Stannite Tin)
T.Sn (or Sn)	Total tin (C.Sn + S.Sn)
S.Fe	Acid (HCl) Soluble iron
T.Fe (or Fe)	Total Iron

Use of symbols

- (1) Where there are a number of products from the one operation, e.g. magnetic products, spigot products, these are distinguished by numbers, e.g. M/A1, M/A2, M/A3, S3, S4 etc.
- (2) Where there are a number of operations, these are numbered, e.g. Two jigging stages J1 and J2, flotation stages F2, F3.
- (3) Products from operations are described by compounding operation and product symbols thus: F4C, C/S4 means the cyclosizer fraction 4 from the concentrate made in flotation stage 4.

Note: Research projects are given a number prefixed with R, e.g. R.606. The tests done in the project are numbered N1, N2 etc.