metals

MDPI

Supplementary Materials

Variability Study of Bond Work Index and Grindability Index on Various Critical Metal Ores

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Detailed laboratory test results

Table S1. PENOUTA (tailings pond) BRM.

P_{100}	F_{80}	P_{80}	Grp	w_i
500	1195	404	7.16	20.836
212	1235	180	2.41	22.689

Table S2. PENOUTA (tailings pond) BBM.

P_{100}	F_{80}	P_{80}	Gbp	w_i
250	1367	201	2.5708	14.58
125	1367	108	1.3958	17.76
75	1367	70	0.875	21.95
45	1367	41	0.5587	25.6

Table S3. PENOUTA (mine) BRM.

P_{100}	F_{80}	P_{80}	Grp	w_i
1000	5507	760	38.11	5.763
500	6203	355	13.58	7.204
212	4695	156	4.26	11.327

Table S4. PENOUTA (mine) BBM.

P_{100}	F_{80}	P_{80}	Gbp	w_i
125	2114	97	2.2892	10.28
75	2114	62	1.0804	16.2
45	2114	43	0.6597	21.98

Table S5. MITTERSILL BRM.

P_{100}	F_{80}	P_{80}	Grp	w_i
1000	6078	673	21.34	7.291
500	5860	335	13.23	7.113
212	5923	165	5.47	9.640

Table S6. MITTERSILL BBM.

P_{100}	F_{80}	P_{80}	Gbp	w_i
125	1828	92	2.3302	9.96
75	1828	58	1.1208	15.39
45	1828	42	0.5407	26

Table S7. PANASQUEIRA BRM.

P_{100}	F_{80}	P_{80}	Grp	w_i
1400	9200	765	9.36	11.004
1000	9980	780	7.08	14.357
500	9340	360	4.83	13.093
212	9372	150	2.74	13.526
160	9200	99	2.42	12.313

Table S8. PANASQUEIRA BBM.

P_{100}	F_{80}	P_{80}	Gbp	w_i
125	2624	92	1.5325	13.43
75	2624	66	1.2305	14.77
45	2624	42	0.9201	16.23

Table S9. BARRUECOPARDO BRM.

P_{100}	F_{80}	P_{80}	Grp	w_i
1000	3753	708	17.48	9.983
500	3793	414	7.63	12.704
212	3843	169	2.59	16.427

Table S10. BARRUECOPARDO BBM (test A).

P_{100}	F_{80}	P_{80}	Gbp	w_i
125	2704	103	1.6181	13.69
75	2704	62	0.916	18.19
45	2704	41	0.5534	24.18

Table S11. BARRUECOPARDO BBM (test B).

P_{100}	F_{80}	P_{80}	Gbp	w_i
125	1690	107	1.2835	18.22
75	1690	68	0.7854	22.87
45	1690	41	0.4986	27.28