

INTERIM RESULTS

Test: HPGR
Test completed: 23th August 2013
Test operator: Mitch Alexandxer
Client: Kyspymet
Job No: 13258

Parameter	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6
Rolls Pressure (bar)	40	50	70	40	50	70
Rolls speed (m/s)	0.38	0.38	0.38	0.77	0.77	0.77
Feed bulk density (t/m ³)	1.46	1.46	1.46	1.46	1.46	1.46
Product flake density (t/m ³)	1.87	1.9	1.91	1.87	1.87	1.91
Specific force (from working pressure) (N/mm ²)	3.14	3.82	5.32	3.04	3.54	5.11
Working gap (mm)	4.22	4	3.49	4.01	3.53	3.27
Specific net comminution energy $E_{cst(net)}$ (kWh/t)	1.36	1.74	2.5	1.34	1.61	2.35
Measured test throughput (t/h)	1.51	1.5	1.46	2.91	2.81	2.79
Calculated model throughput (t/h)	1.44	1.37	1.28	2.84	2.68	2.48
Feed 80% passing size (μm)	3,152					
Product 80% passing size (μm)	395	316	160	462	325	180

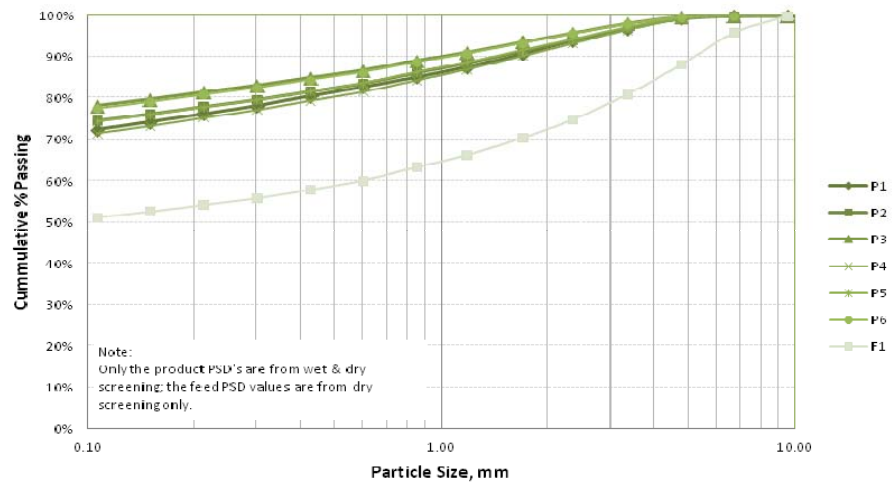


Figure 1: Feed and Product Size Distributions for Kyspymet K12023 Composite C (>9% Al₂O₃) HPGR Tests

