



Client: Intertek Commodities
Client address: 311 Kenwick Road, Maddington, WA, 6109, Australia
Client ID: Cu Concentrates T:30450-30492 (5000WMT) 26.07.2023 - 01.08.2023
Job ID: 23_1364
Lab ID: 23_1364_01
Revision No. : 0

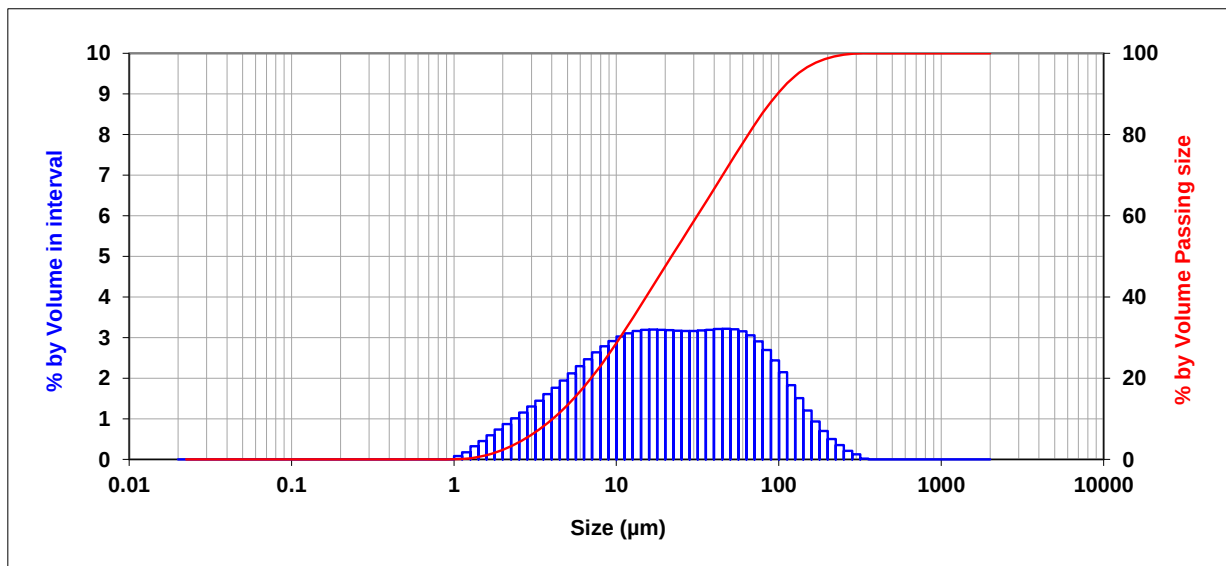
Date received: 4/08/2023
Date analysed: 9/08/2023
Date reported: 9/08/2023

Comment: No comment

Analysis: Laser diffraction size distribution following ISO13320-1:2020
Dispersant: Water
Additives: 10 millilitres sodium hexametaphosphate
Sonication: 26 min sonication

Result units: Volume
Analysis model: General purpose
RI/ABS: 1.544 / 0.01

Concentration:	0.0174 % vol	Vol. Weighted Mean D[4,3]:	39.14 μm	d(0.1):	4.06 μm
Obscuration:	13.06 %	Surface Weighted Mean D[3,2]:	10.47 μm	d(0.5):	21.85 μm
Weighted Residual:	0.547 %	Specific Surface Area:	0.573 m^2/cc	P80:	64.75 μm
				d(0.9):	97.97 μm



Size (μm)	Vol Under %	Size (μm)	Vol Under %	Size (μm)	Vol Under %	Size (μm)	Vol Under %	Size (μm)	Vol Under %	Size (μm)	Vol Under %
0.020	0.00	0.142	0.00	1.002	0.00	7.096	20.35	50.238	73.01	355.66	100.00
0.022	0.00	0.159	0.00	1.125	0.08	7.962	22.98	56.368	76.22	399.05	100.00
0.025	0.00	0.178	0.00	1.262	0.26	8.934	25.77	63.246	79.37	447.74	100.00
0.028	0.00	0.200	0.00	1.416	0.59	10.024	28.68	70.963	82.42	502.38	100.00
0.032	0.00	0.224	0.00	1.589	1.04	11.247	31.71	79.621	85.33	563.68	100.00
0.036	0.00	0.252	0.00	1.783	1.63	12.619	34.81	89.337	88.02	632.46	100.00
0.040	0.00	0.283	0.00	2.000	2.36	14.159	37.97	100.237	90.46	709.63	100.00
0.045	0.00	0.317	0.00	2.244	3.24	15.887	41.16	112.468	92.61	796.21	100.00
0.050	0.00	0.356	0.00	2.518	4.25	17.825	44.36	126.191	94.43	893.37	100.00
0.056	0.00	0.399	0.00	2.825	5.41	20.000	47.55	141.589	95.95	1002.37	100.00
0.063	0.00	0.448	0.00	3.170	6.71	22.440	50.73	158.866	97.15	1124.68	100.00
0.071	0.00	0.502	0.00	3.557	8.15	25.179	53.90	178.250	98.09	1261.91	100.00
0.080	0.00	0.564	0.00	3.991	9.76	28.251	57.06	200.000	98.79	1415.89	100.00
0.089	0.00	0.632	0.00	4.477	11.53	31.698	60.22	224.404	99.29	1588.66	100.00
0.100	0.00	0.710	0.00	5.024	13.47	35.566	63.40	251.785	99.64	1782.50	100.00
0.112	0.00	0.796	0.00	5.637	15.58	39.905	66.59	282.508	99.86	2000.00	100.00
0.126	0.00	0.893	0.00	6.325	17.88	44.774	69.80	316.979	99.98		

Analysed: [Redacted] Cert IV (Laboratory Techniques)
Reported: [Redacted] Cert IV (Laboratory Techniques)
Approved: [Redacted] B.Sc.(Nanotechnology)

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