



ZIRCON FLOUR				
RESIDUE TEST				
325 MESH	Zn	U	Th	U+Th
NIL	<55ppm	<220ppm	<117ppm	<337ppm

CHEMICAL TEST					
Zro2	Hfo2	SiO2	Fe2O3	Tio2	Al2O3
ZIRCON FLOUR BATCH					
65.621	1.211	30.516	0.058	0.387	1.453
ZIRCON FLOUR STANDARD					
65.154	1.210	30.872	0.060	0.385	1.469

ZIRCON TEST	L	A	B
ZIRCON FLOUR BATCH	95.56	0.70	4.53
ZIRCON FLOUR STANDARD	95.38	0.73	4.74
			DELTA (E) = 0.212

WHITE GLAZE TEST	L	A	B
ZIRCON FLOUR BATCH	82.54	0.62	- 4.90
ZIRCON FLOUR STANDARD	82.68	0.51	- 4.66
			DELTA (E) = 0.264

PARTICLE REPORT							
	D-50	D-90	D-97	% OF PARTICLE BELOW			
				1MIC	2MIC	5MIC	10MIC
ZIRCON FLOUR BATCH	5.25	18.10	27.00	11.41	26.28	48.62	71.54
ZIRCON FLOUR STANDARD	5.28	17.50	26.50	11.91	25.45	47.56	70.79





SAMPLE: ZIRCON FLOUR

Analysis Method: OPAQUE 2024

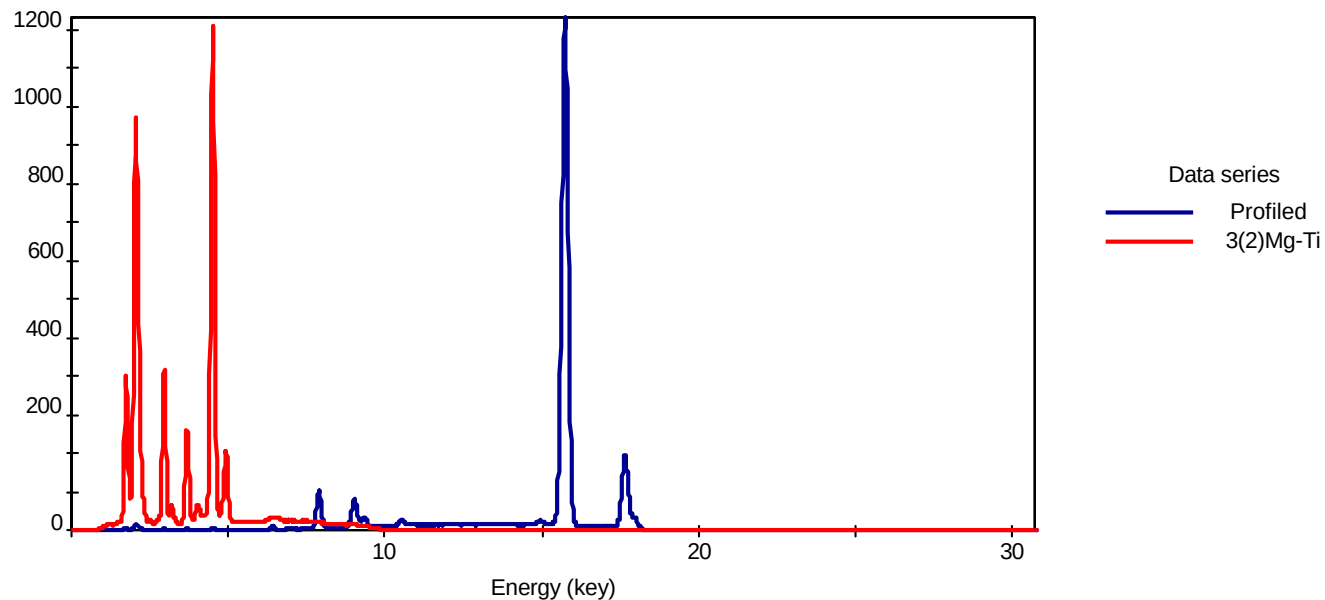
Analytic Concentration Table

**OPERATOR: INSTRUMENT
OPERATOR**

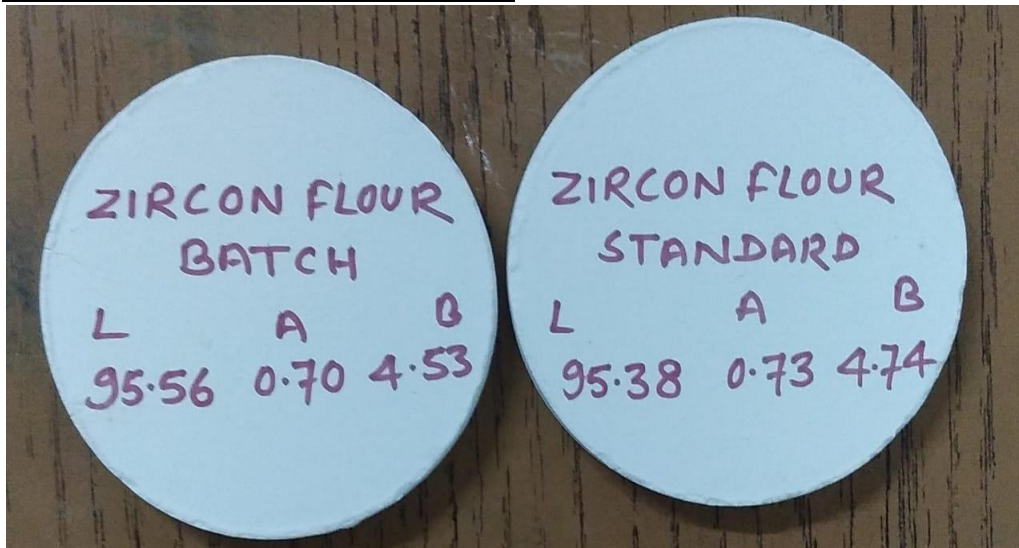
Element	Line	Concentration
ZrO2	Ka	65.621Wt%
HfO2	La	1.211Wt%
SiO2	K	30.516Wt%
Fe2O3	Ka	0.058Wt%
TiO2	Ka	0.387Wt%
Al2O3	Ka	1.453Wt%

Spectra for all conditions

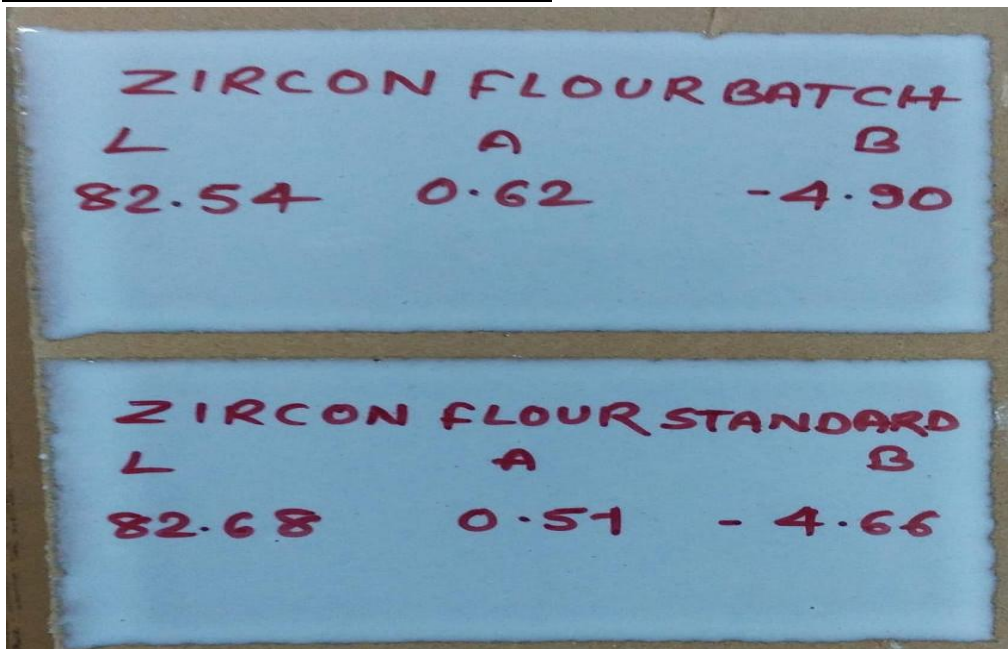
Intensity(cps)



ZIRCON BUTTON TEST LAB VALUES 1200°C



WHITE GLAZE STRIP TEST LAB VALUES 1080°C





OPAQUE CERAMICS PVT LTD

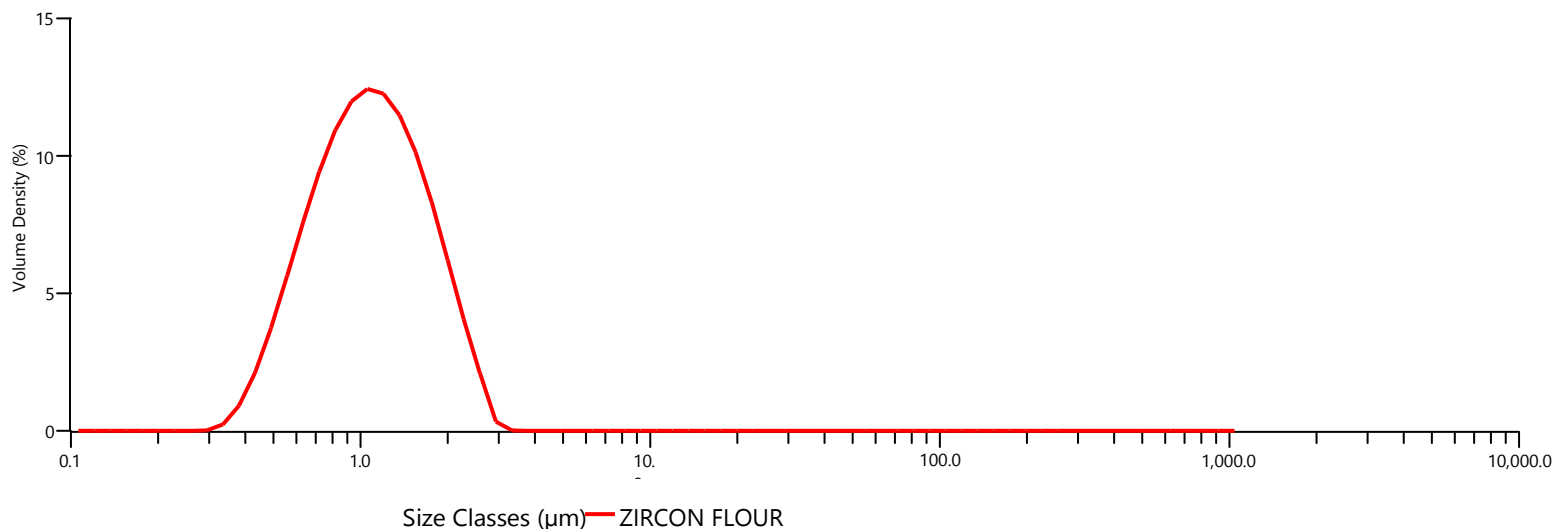
Analysis

Particle Name ZIRCON FLOUR
Particle Refractive Index 1.930
Particle Absorption Index 0.100
Dispersant Name Water
Dispersant Refractive Index 1.330
Scattering Model Mie
Analysis Model General Purpose
Weighted Residual 0.46%
Laser Obscuration 8.18 %
Ultrasonication Duration (SOP) 10.00s

Result

Span 2.979
Uniformity 0.958
Specific Surface Area 2342 m²/kg
D [3,2] 2.38 µm
D [4,3] 7.70 µm
Dv (10) 0.934 µm
Dv (50) 5.25 µm
Dv (90) 18.1 µm
Dv (97) 27.0 µm
Volume Below (1) µm 11.41 %
Volume Below (2) µm 26.28 %
Volume Below (5) µm 48.62 %
Volume Below (10) µm 71.54 %

Frequency (compatible)



Result

Size (µm)	% Volume In	Size (µm)	% Volume In	Size (µm)	% Volume In	Size (µm)	% Volume In	Size (µm)	% Volume In	Size (µm)	% Volume In	Size (µm)	% Volume In
0.0995	0.00	0.405	1.73	1.65	6.96	6.72	0.00	274	0.00	111	0.00	454	0.00
0.113	0.00	0.461	3.11	1.88	5.18	7.64	0.00	31.1	0.00	127	0.00	516	0.00
0.128	0.00	0.523	4.70	2.13	3.36	8.68	0.00	35.3	0.00	144	0.00	586	0.00
0.146	0.00	0.594	6.34	2.42	1.76	9.86	0.00	40.1	0.00	163	0.00	666	0.00
0.166	0.00	0.675	7.88	2.75	0.16	11.2	0.00	45.6	0.00	186	0.00	756	0.00
0.188	0.00	0.767	9.15	3.12	0.00	12.7	0.00	51.8	0.00	211	0.00	859	0.00
0.214	0.00	0.872	10.03	3.55	0.00	14.5	0.00	58.9	0.00	240	0.00	976	0.00
0.243	0.00	0.991	10.41	4.03	0.00	16.4	0.00	66.9	0.00	272	0.00	1110	
0.276	0.00	1.13	10.27	4.58	0.00	18.7	0.00	76.0	0.00	310	0.00		
0.314	0.16	1.28	9.61	5.21	0.00	21.2	0.00	86.4	0.00	352	0.00		
0.357	0.72	1.45	8.48	5.92	0.00	24.1	0.00	98.1	0.00	400	0.00		