



ZIRCON PATT A PLUS						
RESIDUE TEST						
300MESH	500MESH	800MESH	Zn	U	Th	U+Th
NIL	NIL	NIL	<55ppm	<220ppm	<117ppm	<337ppm

CHEMICAL TEST					
Zro2	Hfo2	SiO2	Fe2O3	Tio2	Al2O3
ZIRCON PATT A PLUS BATCH					
55.582	0.967	42.079	0.065	0.733	1.833
ZIRCON PATT A PLUS STANDARD					
54.925	0.982	42.304	0.057	0.677	1.718

ZIRCON TEST	L	A	B
ZIRCON PATT A PLUS BATCH	97.42	0.41	3.66
ZIRCON PATT A PLUS STANDARD	97.14	0.38	3.79
			DELTA (E) = 0.133

WHITE GLAZE TEST	L	A	B
ZIRCON PATT A PLUS BATCH	87.95	-0.49	-3.42
ZIRCON PATT A PLUS STANDARD	87.76	-0.60	-3.60
			DELTA (E) = 0.211

BLACK GLAZE TEST	L	A	B
ZIRCON PATT A PLUS BATCH	46.59	-0.47	-8.62
ZIRCON PATT A PLUS STANDARD	46.41	-0.44	-8.89
			DELTA (E) = 0.272

PARTICLE REPORT							
	D-50	D-90	D-97	% OF PARTICLE BELOW			
				1MIC	2MIC	5MIC	10MIC
ZIRCON PATT A PLUS BATCH	1.37	5.64	12.10	31.85	68.77	88.94	95.43
ZIRCON PATT A PLUS STANDARD	1.45	6.14	13.25	31.42	68.32	88.36	94.88





SAMPLE: ZIRCON PATTA PLUS

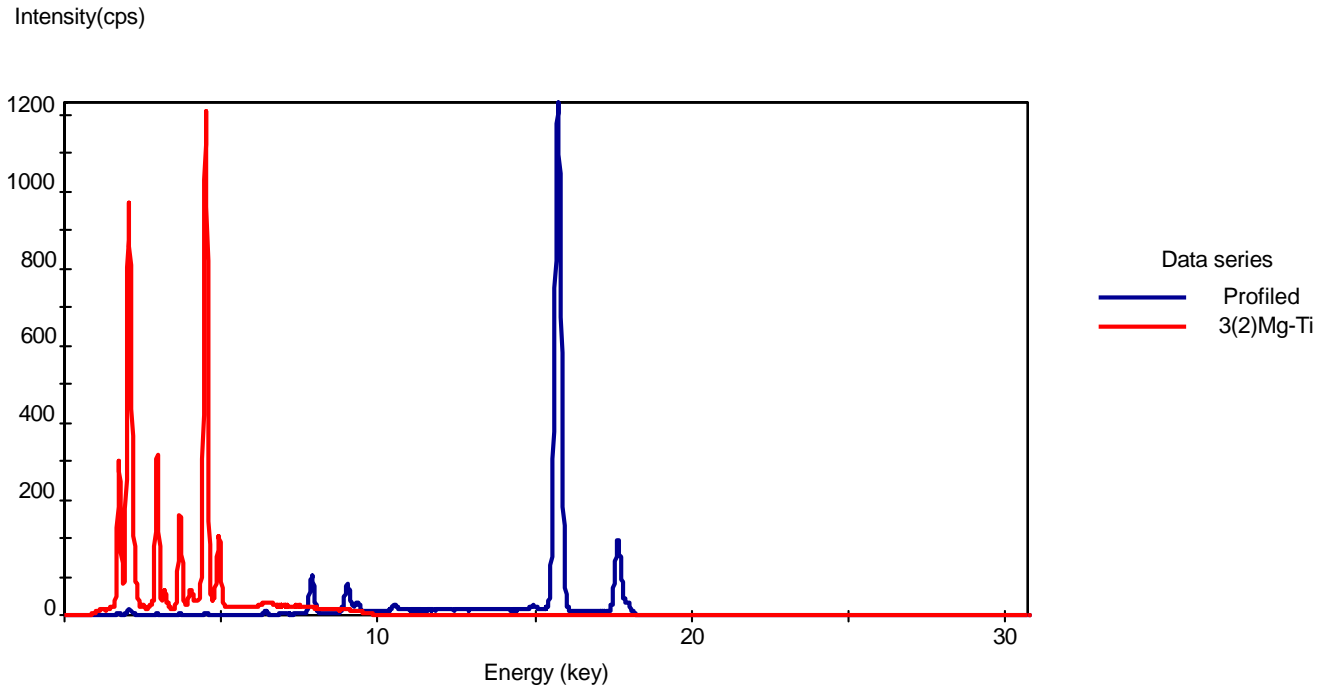
Analysis Method: OPAQUE 2024

**OPERATOR: INSTRUMENT
OPERATOR**

Analytic Concentration Table

Element	Line	Concentration
ZrO2	Ka	55.582Wt%
HfO2	La	0.967Wt%
SiO2	K	42.079Wt%
Fe2O3	Ka	0.065Wt%
TiO2	Ka	0.733Wt%
Al2O3	Ka	1.833Wt%

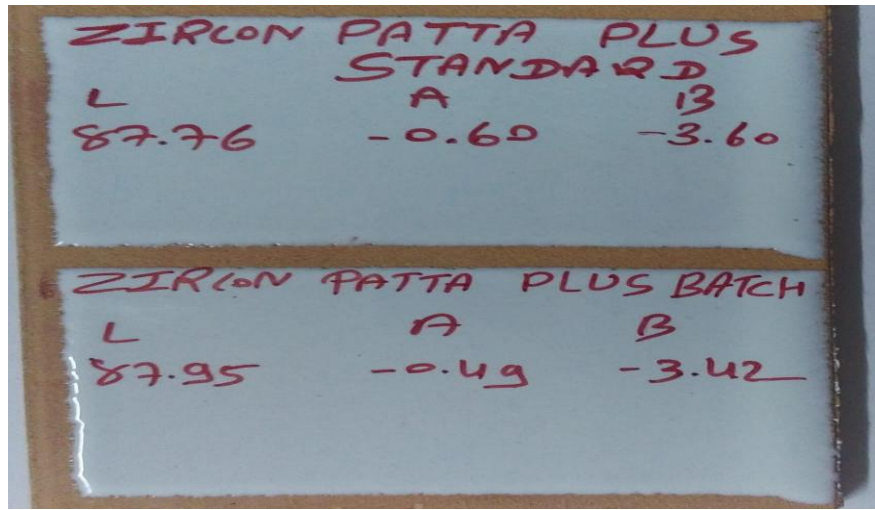
Spectra for all conditions



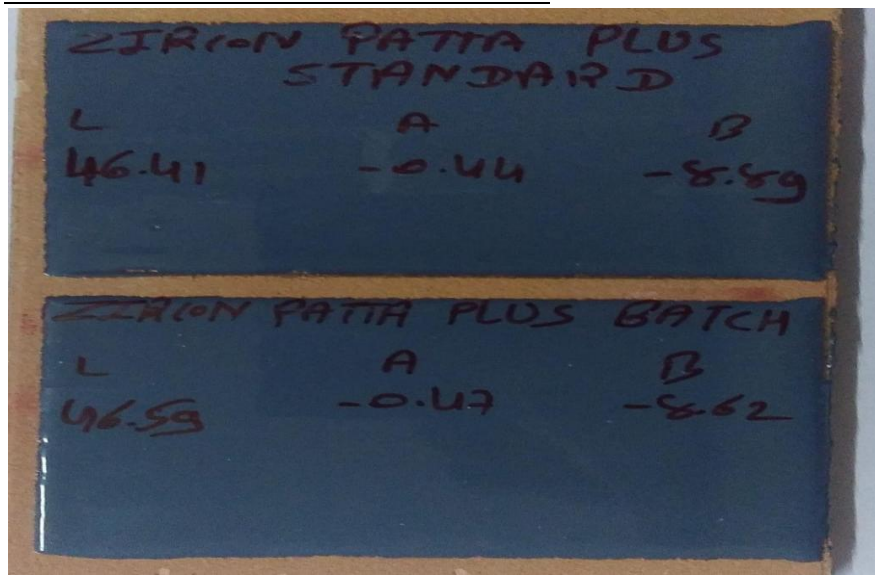
ZIRCON BUTTON TEST LAB VALUES 1200°C



WHITE GLAZE STRIP TEST LAB VALUES 1080°C



BLACK GLAZE STRIP TEST LAB VALUES 1080°C





OPAQUE CERAMICS PVT LTD

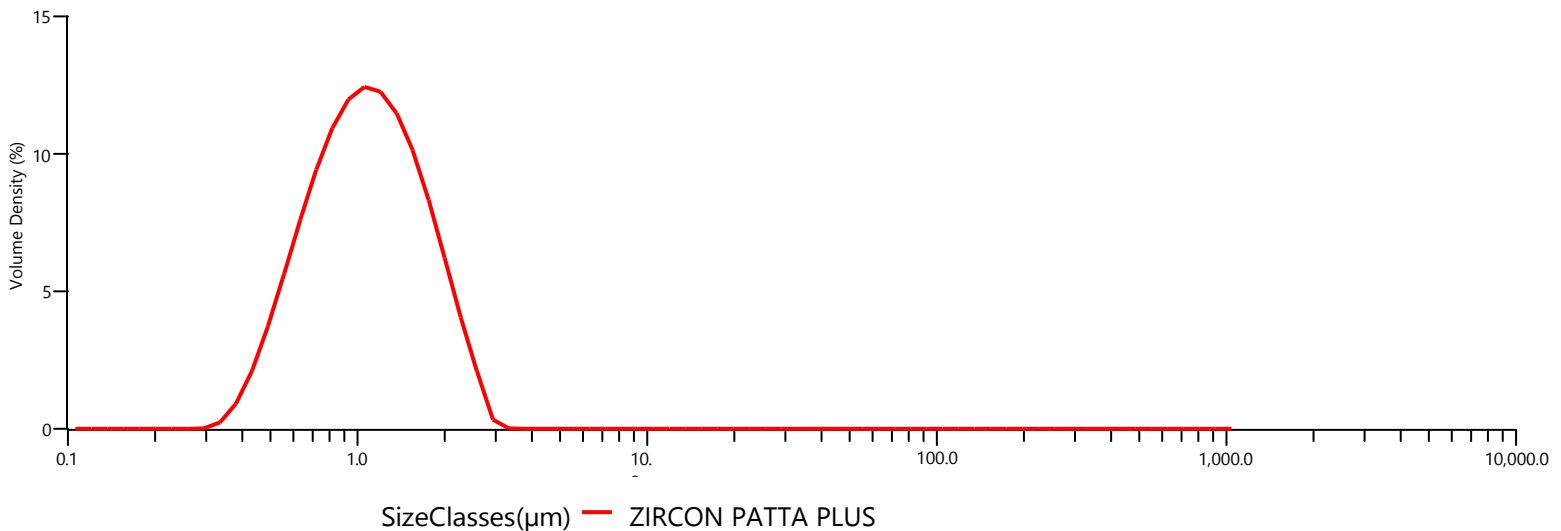
Analysis

Particle Name ZIRCON PATTa PLUS
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 1.62%
Laser Obscuration 8.07 %
Ultrasonication Duration (SOP) 10.00s

Result

Span 3.646
Uniformity 1.204
Specific Surface Area 4844m²/kg
D [3,2] 1.24µm
D [4,3] 2.55µm
Dv (10) 0.659µm
Dv (50) 1.37µm
Dv (90) 5.64µm
Dv (97) 12.1µm
Volume Below (1) µm 31.85%
Volume Below (2) µm 68.77%
Volume Below (5) µm 88.94%
Volume Below (10) µm 95.43%

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	27.4	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		

