< 1 MICRON SHWET						
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
SHWET BATCH					
64.080	1.210	31.558	0.039	0.058	1.569
SHWET STANDARD					
64.346	1.211	31.356	0.054	0.208	1.584

ZIRCON TEST	L	A	B
SHWET BATCH	98.56	0.21	1.81
SHWET STANDARD	98.39	0.18	1.94
			DELTA (E) = 0.133

WHITE GLAZE TEST	L	A	B
SHWET BATCH	89.03	- 0.29	- 2.66
SHWET STANDARD	89.18	- 0.51	- 2.46
			DELTA (E) = 0.297

BLACK GLAZE TEST	L	A	B
SHWET BATCH	49.43	0.11	- 2.64
SHWET STANDARD	49.34	0.36	- 2.48
			DELTA (E) = 0.296

PARTICLE REPORT							
				% OF PARTICLE BELOW			
	D-50	D-90	D-97	1MIC	2MIC	5MIC	10MIC
SHWET BATCH	1.07	1.90	2.32	44.59	92.15	100	100
SHWET STANDARD	1.05	2.08	2.65	46.31	88.40	100	100

OPAQUE CERAMICS PVT. LTD. AHMEDABAD

SAMPLE: SHWET

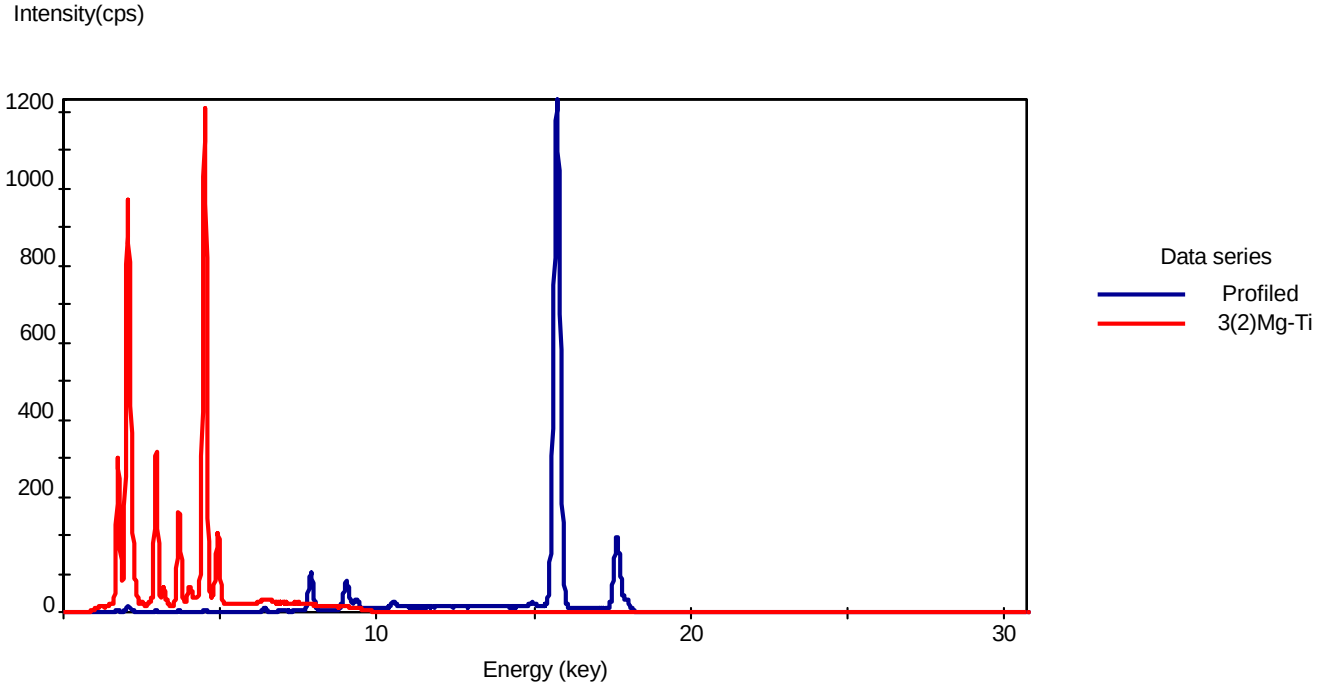
Analysis Method: OPAQUE 2024

OPERATOR: INSTRUMENT OPERATOR

Analytic Concentration Table

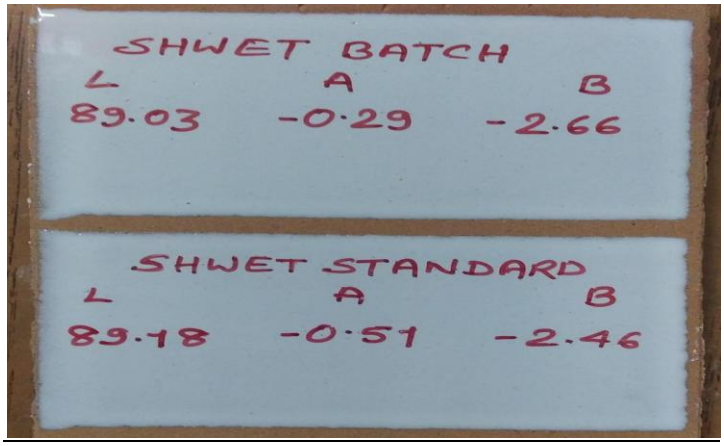
Element	Line	Concentration
ZrO2	Ka	64.080Wt%
HfO2	La	1.210Wt%
SiO2	K	31.558Wt%
Fe2O3	Ka	0.039Wt%
TiO2	Ka	0.058Wt%
Al2O3	Ka	1.569Wt%

Spectra for all conditions

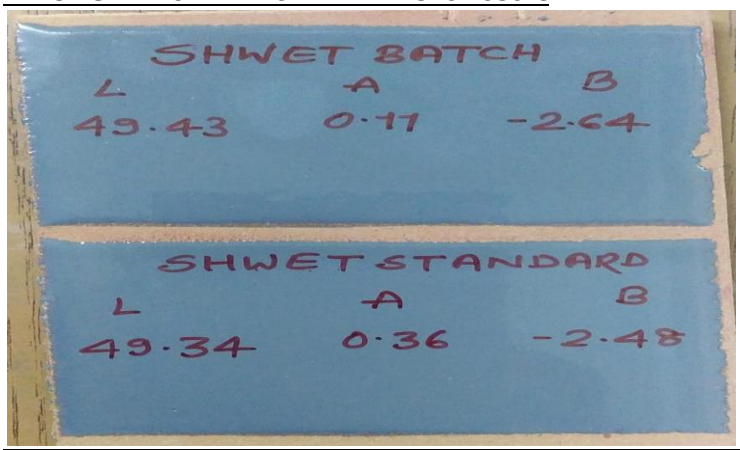


ZIRCON BUTTON TEST LAB VALUES 1200°C

WHITE GLAZE STRIP TEST LAB VALUES 1080°C



BLACK GLAZE STRIP TEST LAB VALUES 1080°C



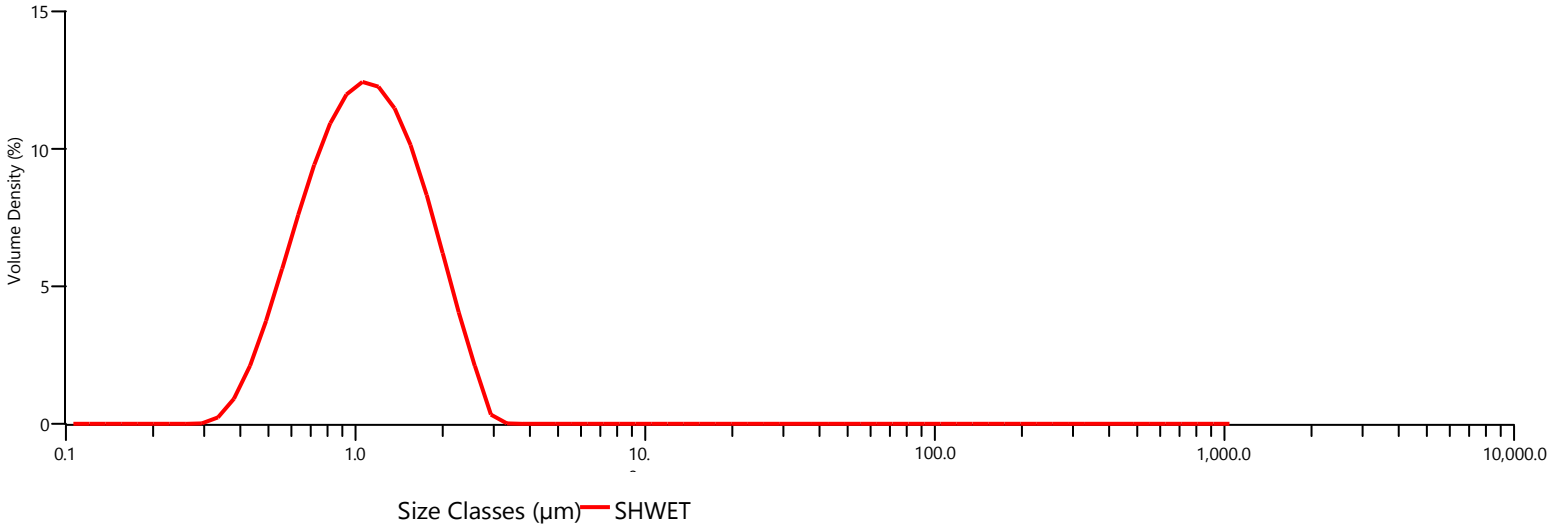
OPAQUE CERAMICS PVT. LTD. AHMEDABAD

OPAQUE CERAMICS PVT LTD

Analysis	
Particle Name	SHWET
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	1.225
Uniformity	0.375
Specific Surface Area	6227 m^2/kg
D [3,2]	0.964 µm
D [4,3]	1.16 µm
Dv (10)	0.588 µm
Dv (50)	1.07 µm
Dv (90)	1.90 µm
Dv (97)	2.32 µm
Volume Below (1) µm	44.59 %
Volume Below (2) µm	92.15 %
Volume Below (5) µm	100 %
Volume Below (10) µm	100 %

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		