



1 MICRON S						
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
1 MICRON S BATCH					
63.720	1.211	31.566	0.053	0.542	1.585
1 MICRON S STANDARD					
63.432	1.210	31.667	0.062	0.489	1.555

ZIRCON TEST	L	A	B
1 MICRON S BATCH	98.10	0.10	2.65
1 MICRON S STANDARD	97.88	0.18	2.82
			DELTA (E) = 0.190

WHITE GLAZE TEST	L	A	B
1 MICRON S BATCH	88.84	- 0.03	- 2.64
1 MICRON S STANDARD	88.66	- 0.05	- 2.77
			DELTA (E) = 0.136

BLACK GLAZE TEST	L	A	B
1 MICRON S BATCH	47.34	- 0.66	- 6.43
1 MICRON S STANDARD	47.44	- 0.81	- 6.70
			DELTA (E) = 0.309

PARTICLE REPORT							
	D-50	D-90	D-97	% OF PARTICLE BELOW			
				1MIC	2MIC	5MIC	10MIC
1 MICRON S BATCH	1.18	2.41	3.14	38.85	81.94	99.98	100
1 MICRON S STANDARD	1.23	2.41	3.10	35.26	81.47	100	100





SAMPLE: 1 MICRON S

Analysis Method: OPAQUE 2024

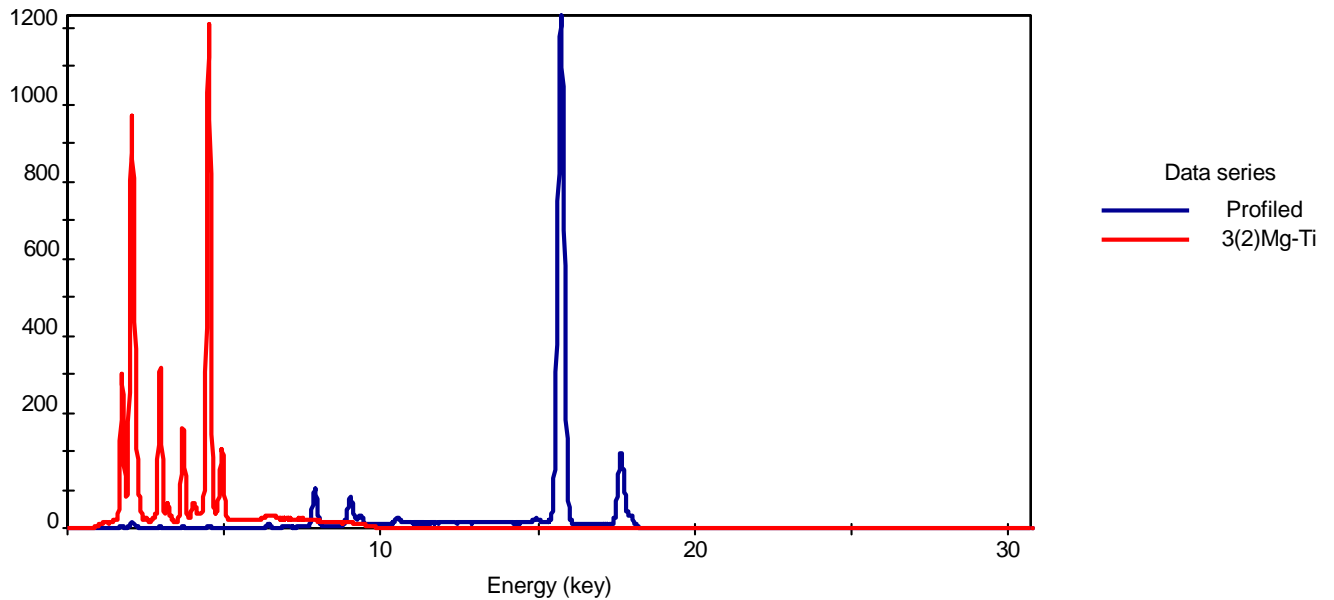
Analytic Concentration Table

**OPERATOR: INSTRUMENT
OPERATOR**

Element	Line	Concentration
ZrO2	Ka	63.720Wt%
HfO2	La	1.211Wt%
SiO2	K	31.566Wt%
Fe2O3	Ka	0.053Wt%
TiO2	Ka	0.542Wt%
Al2O3	Ka	1.585Wt%

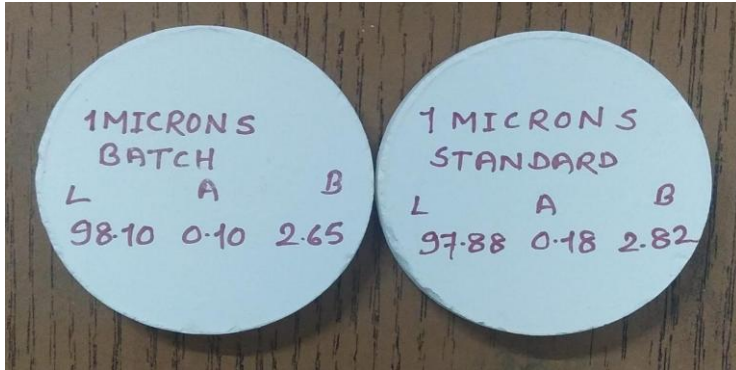
Spectra for all conditions

Intensity(cps)

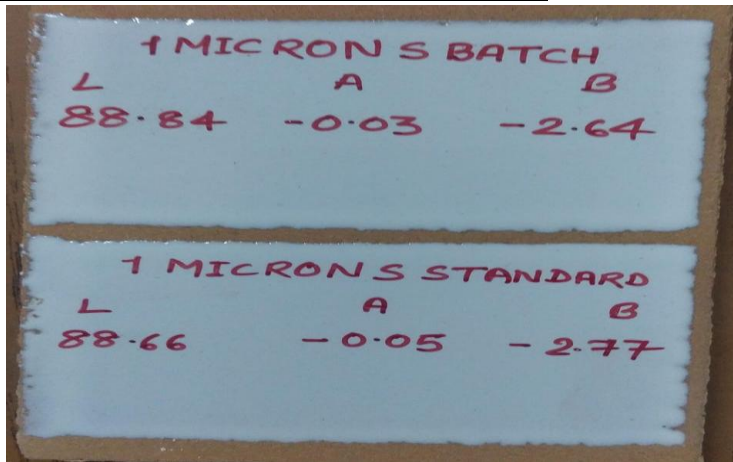




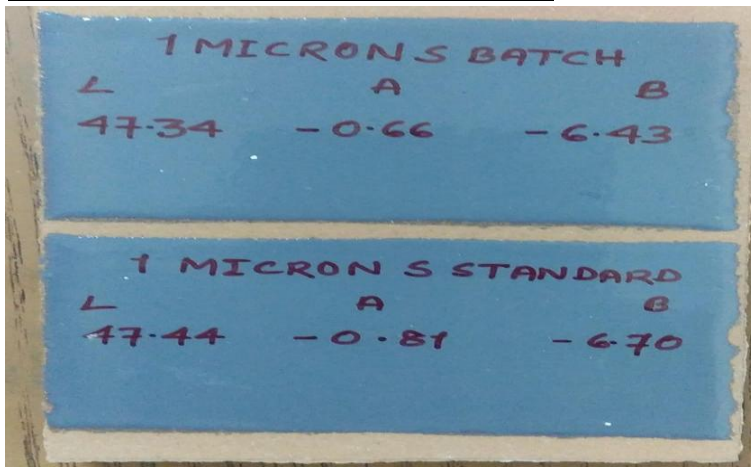
ZIRCON BUTTON TEST LAB VALUES 1200°C



WHITE GLAZE STRIP TEST LAB VALUES 1080°C



BLACK GLAZE STRIP TEST LAB VALUES 1080°C





OPAQUE CERAMICS PVT LTD

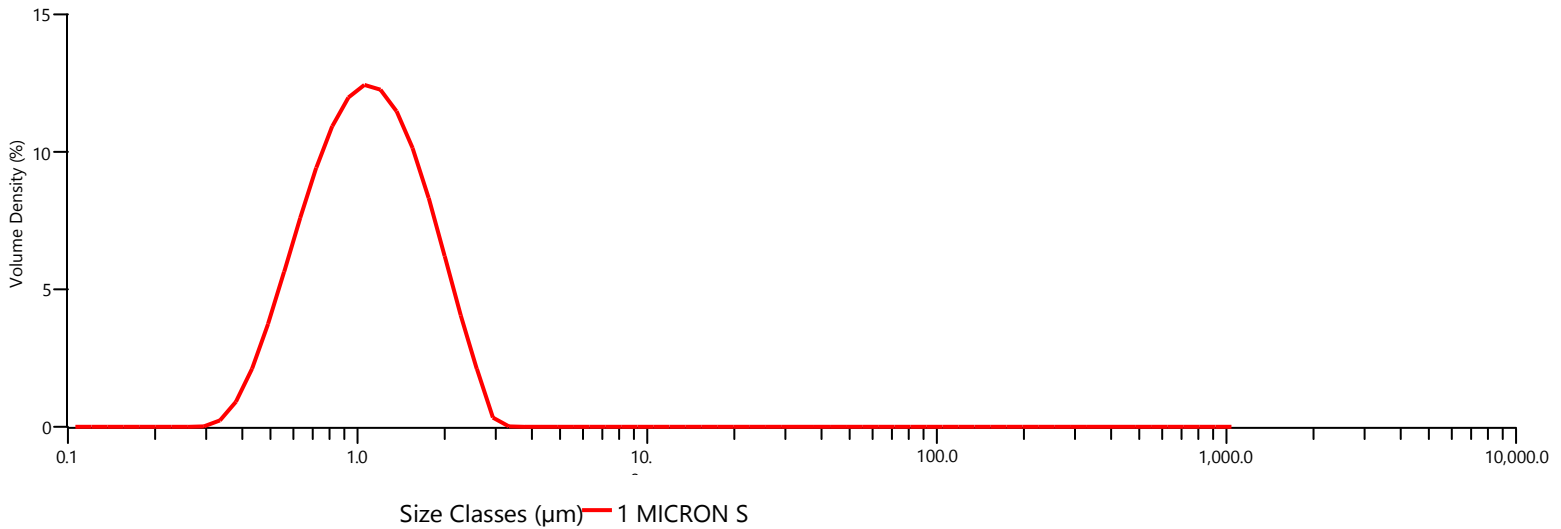
Analysis

Particle Name 1 MICRON S
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 1.61%
Laser Obscuration 8.53 %
Ultrasonication Duration (SOP) 10.00s

Result

Span 1.536
Uniformity 0.476
Specific Surface Area 5762 m²/kg
D [3,2] 1.04 μm
D [4,3] 1.37 μm
Dv (10) 0.596 μm
Dv (50) 1.18 μm
Dv (90) 2.41 μm
Dv (97) 3.14 μm
Volume Below (1) μm 38.85 %
Volume Below (2) μm 81.94 %
Volume Below (5) μm 99.98 %
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	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		

