



PRODUCT : ZIRCON PATTI

RESIDUE TEST

300 MESH	500 MESH	800 MESH	Zn	U	Th	U+Th
NIL	NIL	NIL	<50 ppm	<220 ppm	<117 ppm	<337 ppm

CHEMICAL TEST

ZrO ₂	HfO ₂
52.352	1.026
STANDARD	
52.292	1.012

BODY TEST

	L	a	b
PACKED BATCH	89.63	0.07	6.99
STANDARD	89.47	0.03	6.77
			DELTA E =0.290

WHITE GLAZE TEST

	L	a	B
PACKED BATCH	86.94	0.13	1.60
STANDARD	86.71	0.14	1.43
			DELTA E =0.366

BLACK GLAZE TEST

	L	a	B
PACKED BATCH	47.35	0.55	2.46
STANDARD	47.31	0.87	2.60
			DELTA E =0.366

MAGNETIC IRON TRACES :	NIL	MOISTURE :-	0.70 %
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PARTICLE REPORT

	D-50	D-90	D-97	% OF PARTICLES BELOW			
				10 MIC.	5 MIC.	2 MIC.	1 MIC.
PACKED BATCH	1.32	4.09	12.10	95.70	92.13	70.10	34.37
STANDARD	1.56	7.54	19.50	92.81	85.33	59.19	29.25

OPAQUE

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NAVRATNA CORPORATE PARK
Office no. 207 & 208 "A" Block
Opp. Dishman corporate house
iscon ambali bopal road
ambali, ahmedabad, 380058





White Glaze Strip Test and Lab Values 1080°C

STANDARD			Packed Batch		
L	a	b	L	a	b
86.71	0.14	1.43	86.94	0.13	1.60

Black Glaze Strip Test and Lab Values 1080°C

Packed Batch			STANDARD		
L	A	B	L	A	B
47.35	0.55	2.46	47.31	0.87	2.60



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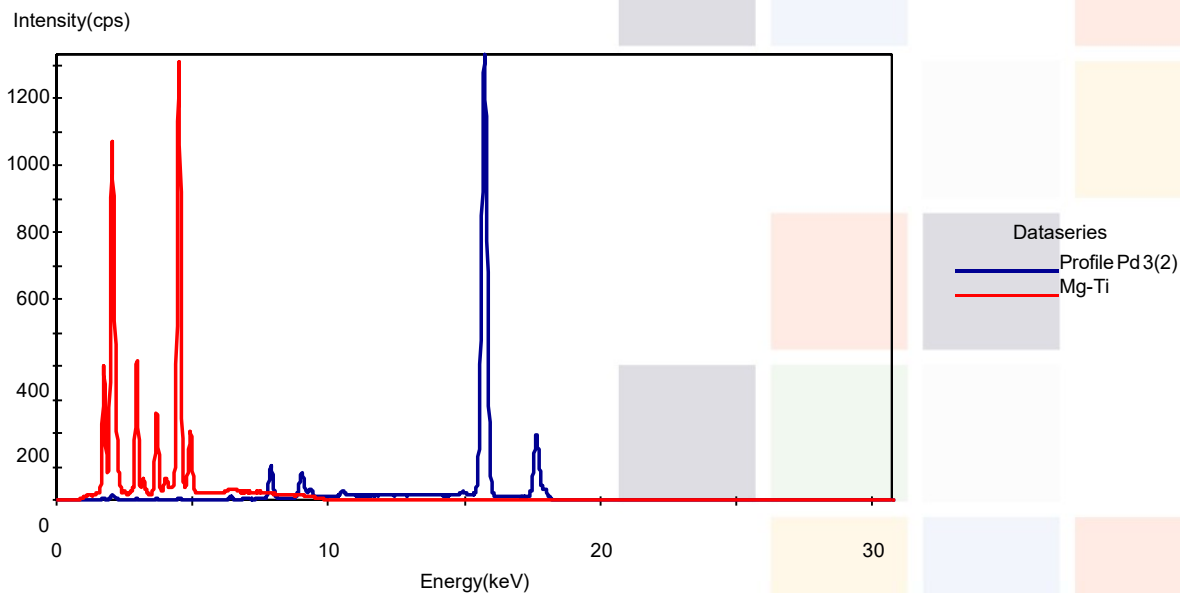
OPERATOR: INSTRUMENT
OPERATOR

AnalysisMethod: OPAQUE ZIRCON 2022

Analyte Concentration Table

Element	Line	Concentration
ZrO2	Ka	52.352 Wt %
HfO2	La	1.026 Wt %

Spectra for all conditions



RADIOACTIVITY	
U	283 PPM
TH	116 PPM
U + TH	399 PPM



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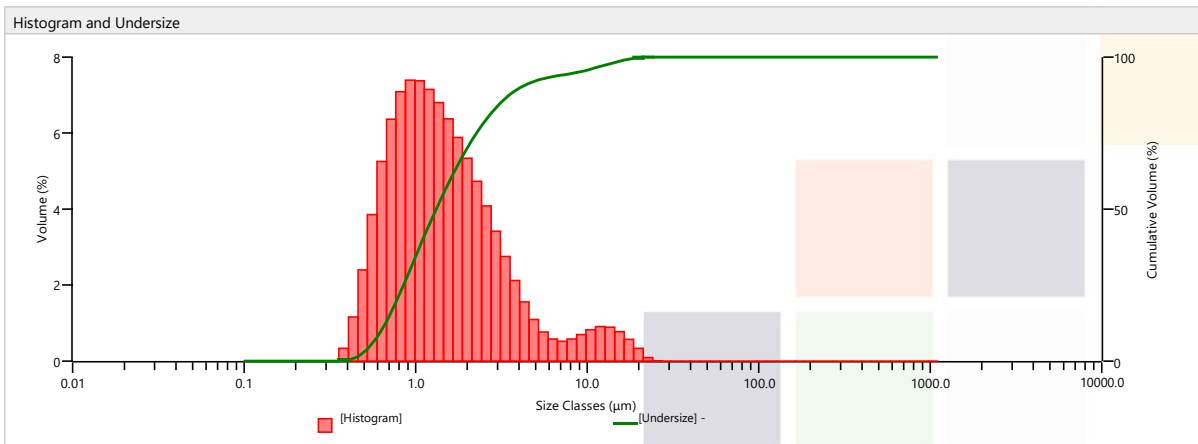
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OPAQUE CERAMICS PVT. LTD.

Analysis	Result
Particle Name ZIRCON PATTI	Specific Surface Area 5083 m ² /kg
Particle Refractive Index 1.930	D [3,2] 1.18 µm
Particle Absorption Index 0.100	D [4,3] 2.26 µm
Dispersant Name Water	Dv (10) 0.628 µm
Dispersant Refractive Index 1.330	Dv (50) 1.32 µm
Scattering Model Mie	Dv (90) 4.09 µm
Analysis Model General Purpose	Dv (97) 12.1 µm
Weighted Residual 0.94 %	Volume Below (1 µm) 34.37 %
Laser Obscuration 7.59 %	Volume Below (2 µm) 70.10 %
Ultrasonication Duration (SOP) 1.00 s	Volume Below (5 µm) 92.13 %
	Volume Below (10 µm) 95.70 %



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
0.0995	0.00	0.405	1.16	1.65	5.89	6.72	0.52	27.4	0.00	111	0.00
0.113	0.00	0.461	2.40	1.88	5.34	7.64	0.58	31.1	0.00	127	0.00
0.128	0.00	0.523	3.85	2.13	4.73	8.68	0.70	35.3	0.00	144	0.00
0.146	0.00	0.594	5.25	2.42	4.08	9.86	0.82	40.1	0.00	163	0.00
0.166	0.00	0.675	6.37	2.75	3.41	11.2	0.90	45.6	0.00	186	0.00
0.188	0.00	0.767	7.08	3.12	2.75	12.7	0.89	51.8	0.00	211	0.00
0.214	0.00	0.872	7.39	3.55	2.12	14.5	0.77	58.9	0.00	240	0.00
0.243	0.00	0.991	7.37	4.03	1.55	16.4	0.57	66.9	0.00	272	0.00
0.276	0.00	1.13	7.15	4.58	1.09	18.7	0.33	76.0	0.00	310	0.00
0.314	0.00	1.28	6.80	5.21	0.76	21.2	0.09	86.4	0.00	352	0.00
0.357	0.33	1.45	6.37	5.92	0.57	24.1	0.00	98.1	0.00	400	0.00

OPAQUE
CERAMICS

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