



PRODUCT: ZIRCON Po-X

RESIDUETEST

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

CHEMICALTEST

ZrO ₂	HfO ₂
35.856	0.861
STANDARD	
35.848	0.793

BODYTEST

	L	a	b
PACKED BATCH	88.87	0.08	6.85
STANDARD	89.12	0.01	6.73
			DELTA E=0.293

WHITE GLAZETEST

	L	a	B
PACKED BATCH	84.39	0.89	2.17
STANDARD	84.20	0.79	2.22
			DELTA E=0.223

MAGNETICIRONTRACES:

MOISTURE :-

0.71%

PARTICLEREPORT

	%OF PARTICLESBELOW						
	D-50	D-90	D-97	10MIC.	5MIC.	2MIC.	1MIC.
PACKED BATCH	1.72	11.2	23.2	88.97	80.98	55.90	26.34
STANDARD	2.15	9.56	18.5	89.93	80.46	49.39	21.88



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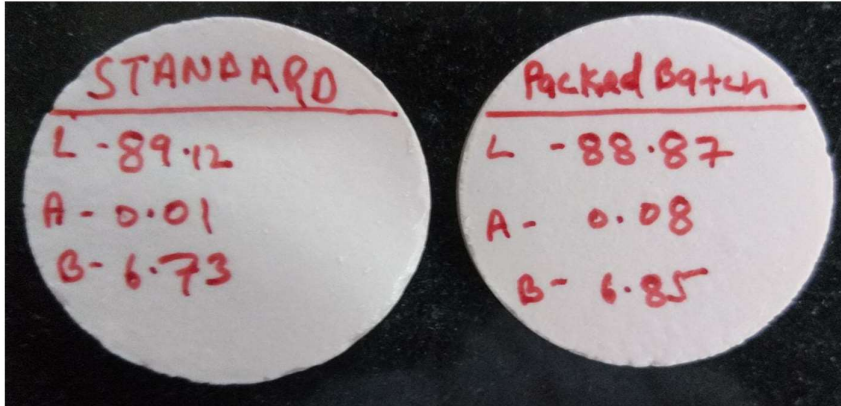
OPAQUE

C E R A M I C S

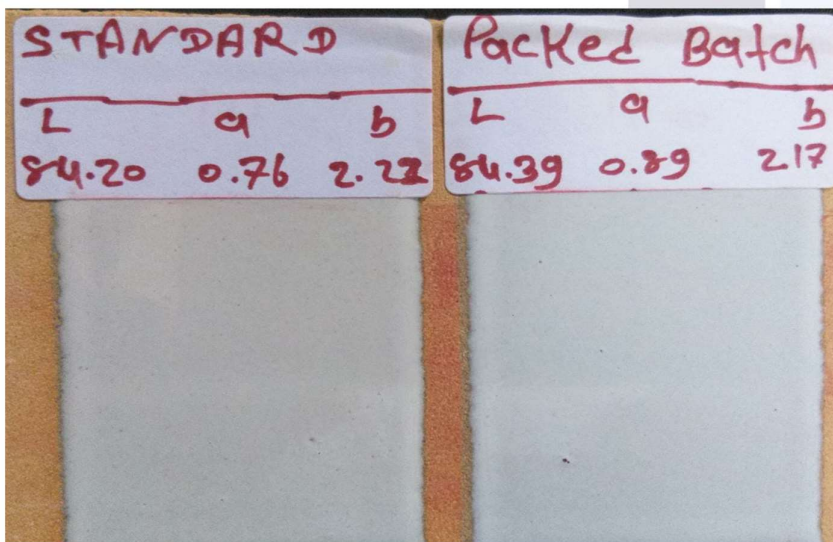
NAVRATNA CORPORATE PARK
Office no. 207 & 208 "A" Block
Opp. Dishman corporate house
iscon ambali bopal road
ambali, ahmedabad, 380058



BODY Button Test & Lab Values 1200°C



White Glaze Strip Test and Lab Values 1080°C



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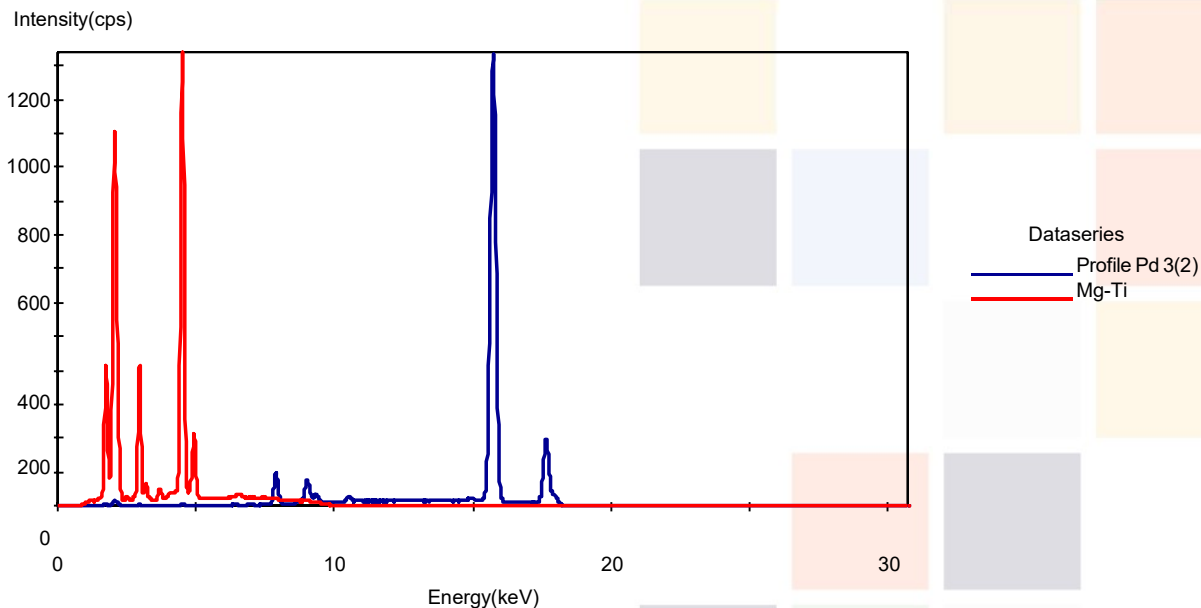
OPERATOR: INSTRUMENT
OPERATOR

Analysis Method: OPAQUE 2021

Analyte Concentration Table

Element	Line	Concentration
ZrO2	Ka	35.856 Wt %
HfO2	La	0.861 Wt %

Spectra for all conditions



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



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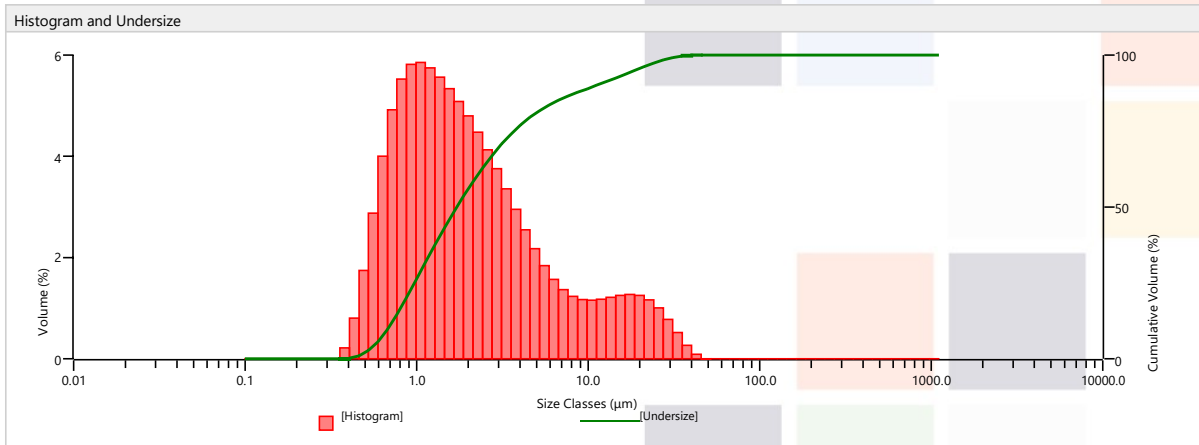
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OPAQUE CERAMICS PVT. LTD.

Analysis	Result
Particle Name ZIRCON POX	Specific Surface Area 4190 m ² /kg
Particle Refractive Index 1.930	D [3,2] 1.43 µm
Particle Absorption Index 0.100	D [4,3] 4.08 µm
Dispersant Name Water	Dv (10) 0.682 µm
Dispersant Refractive Index 1.330	Dv (50) 1.72 µm
Scattering Model Mie	Dv (90) 11.2 µm
Analysis Model General Purpose	Dv (97) 23.2 µm
Weighted Residual 0.74 %	Volume Below (1) µm 26.34 %
Laser Obscuration 8.75 %	Volume Below (2) µm 55.90 %
Ultrasonication Duration (SOP) 1.00 s	Volume Below (5) µm 80.98 %
	Volume Below (10) µm 88.97 %



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	0.80	1.65	5.08	6.72	1.36	27.4	0.78	111	0.00
0.113	0.00	0.461	1.74	1.88	4.80	7.64	1.23	31.1	0.52	127	0.00
0.128	0.00	0.523	2.88	2.13	4.48	8.68	1.17	35.3	0.27	144	0.00
0.146	0.00	0.594	4.00	2.42	4.13	9.86	1.16	40.1	0.09	163	0.00
0.166	0.00	0.675	4.92	2.75	3.75	11.2	1.18	45.6	0.00	186	0.00
0.188	0.00	0.767	5.53	3.12	3.36	12.7	1.22	51.8	0.00	211	0.00
0.214	0.00	0.872	5.82	3.55	2.95	14.5	1.25	58.9	0.00	240	0.00
0.243	0.00	0.991	5.86	4.03	2.55	16.4	1.27	66.9	0.00	272	0.00
0.276	0.00	1.13	5.75	4.58	2.17	18.7	1.25	76.0	0.00	310	0.00
0.314	0.00	1.28	5.56	5.21	1.84	21.2	1.16	86.4	0.00	352	0.00
0.357	0.21	1.45	5.34	5.92	1.57	24.1	1.01	98.1	0.00	400	0.00

OPAQUE
CERAMICS

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