



ZIRCOPAQUE REPLACEMENT

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

CHEMICAL TEST					
ZrO ₂	HfO ₂	SiO ₂	Fe ₂ O ₃	TiO ₂	Al ₂ O ₃
18.215	0.435	69.479	0.061	0.050	1.544
STANDARD					
17.822	0.519	70.352	0.091	0.090	1.778

BODY TEST	L	a	b
PACKED BATCH	88.60	0.15	7.10
STANDARD	88.55	0.14	7.01
			DELTA E=0.278

WHITE GLAZE TEST	L	a	b
PACKED BATCH	82.57	2.29	1.99
STANDARD	82.31	2.27	2.00
			DELTA E=0.261

PARTICLE REPORT							
	D-50	D-90	D-97	%OF PARTICLES BELOW			
				10MIC.	5MIC.	2MIC.	1MIC.
PACKED BATCH	1.87	7.41	18.60	93.33	86.18	54.33	21.43
STANDARD	1.93	8.00	19.04	92.12	85.66	53.88	20.21
Grain Size	S.G.	Size mm	Moisture (%)	Density g/cm ³	L whiteness	Hardness	PH
d50 - 1.1 μ	4.5	0.001 mm	0.70%	0.8	82.37	7.5 on the MOHs scale	> 7

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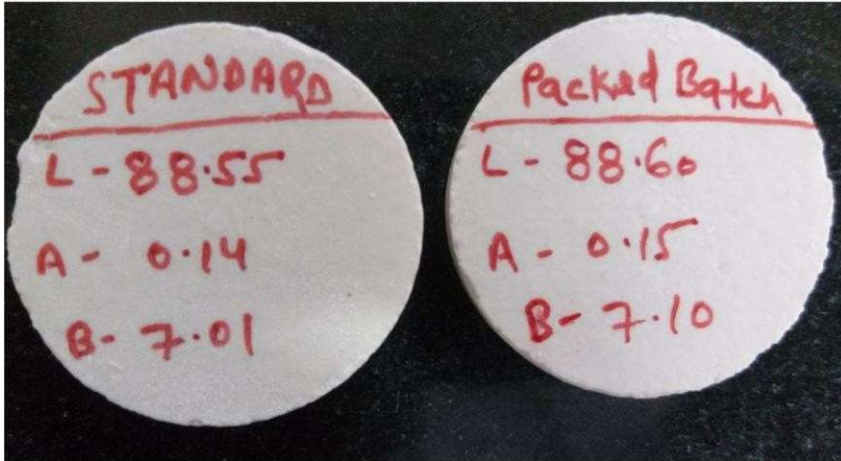
NAVRATNA CORPORATE PARK
Office no. 207 & 208 "A" Block
Opp. Dishman corporate house
iscon ambali bopal road
ambali, ahmedabad, 380058



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BODY Button Test & Lab Values 1200°C



White Glaze Strip Test and Lab Values 1080°C



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OPERATOR:INSTRUMENT
OPERATOR

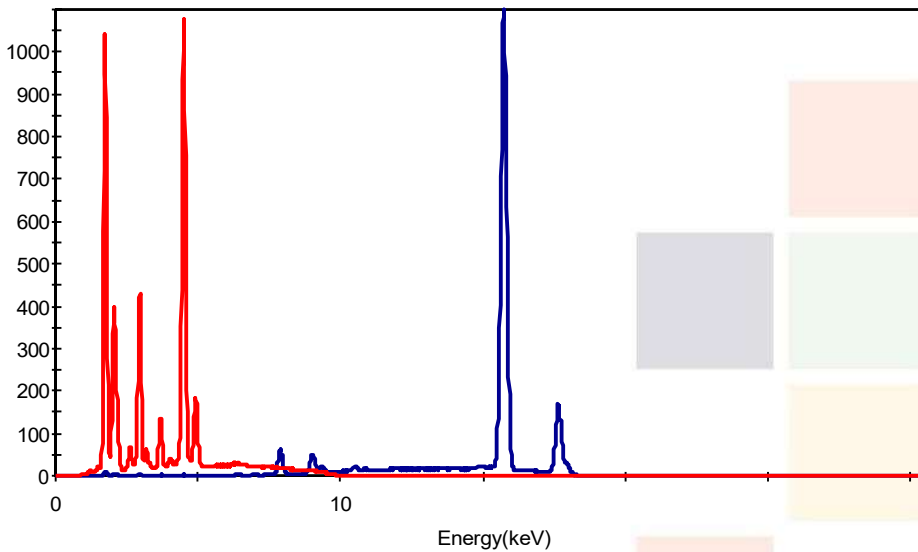
AnalysisMethod: OPAQUE ZIRCON 2022

AnalyteConcentrationTable

Element	Line	Concentration
ZrO2	Ka	18.215 Wt %
HfO2	La	0.435 Wt %
SiO2	K	69.479 Wt %
Fe2O3	Ka	0.061 Wt %
TiO2	Ka	0.050 Wt %
Al2O3	Ka	1.544 Wt %

Spectra for all conditions

Intensity(cps)



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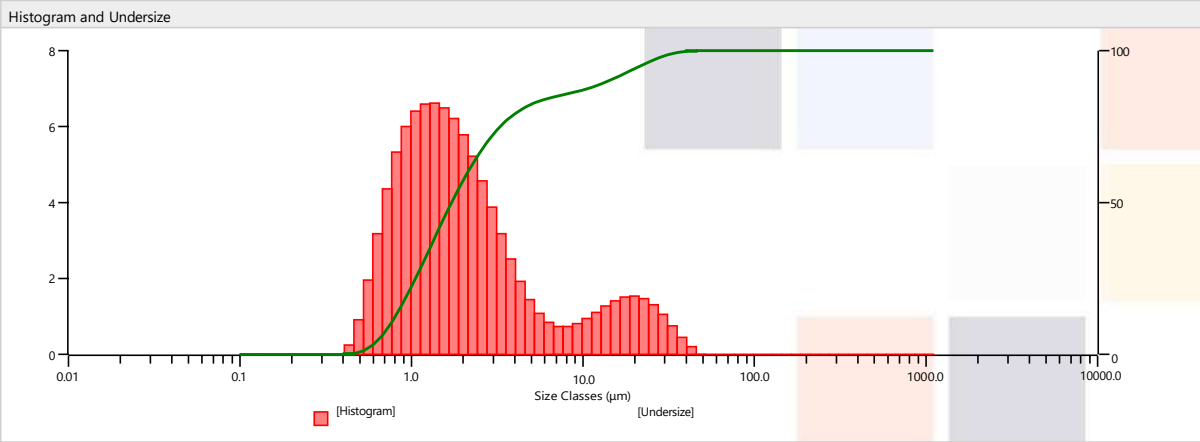
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Analysis	Result
Particle Name ZIRCOPAQUE REPLACEMENT Particle Refractive Index 1.930 Particle Absorption Index 0.100 Dispersant Name Water Dispersant Refractive Index 1.330 Scattering Model Mie Analysis Model General Purpose Weighted Residual 1.01 % Laser Obscuration 4.70 % Ultrasonication Duration (SOP) 1.00 s	Specific Surface Area 3964 m ² /kg D [3,2] 1.51 μm D [4,3] 4.41 μm Dv (10) 0.753 μm Dv (50) 1.72 μm Dv (90) 14.0 μm Dv (97) 26.0 μm Volume Below (1) μm 22.44 % Volume Below (2) μm 57.20 % Volume Below (5) μm 82.33 % Volume Below (10) μm 87.10 %



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	0.24	1.65	6.21	6.72	0.74	27.4	1.06	111	0.00
0.113	0.00	0.461	0.91	1.88	5.78	7.64	0.73	31.1	0.75	127	0.00
0.128	0.00	0.523	1.95	2.13	5.22	8.68	0.81	35.3	0.45	144	0.00
0.146	0.00	0.594	3.18	2.42	4.57	9.86	0.94	40.1	0.20	163	0.00
0.166	0.00	0.675	4.36	2.75	3.88	11.2	1.10	45.6	0.00	186	0.00
0.188	0.00	0.767	5.32	3.12	3.18	12.7	1.27	51.8	0.00	211	0.00
0.214	0.00	0.872	6.00	3.55	2.51	14.5	1.41	58.9	0.00	240	0.00
0.243	0.00	0.991	6.40	4.03	1.92	16.4	1.51	66.9	0.00	272	0.00
0.276	0.00	1.13	6.59	4.58	1.44	18.7	1.53	76.0	0.00	310	0.00
0.314	0.00	1.28	6.62	5.21	1.08	21.2	1.47	86.4	0.00	352	0.00
0.357	0.00	1.45	6.49	5.92	0.85	24.1	1.31	98.1	0.00	400	0.00



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