



## ZIRCON PO - 25 % Zr

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

CHEMICAL TEST					
ZrO <sub>2</sub>	HfO <sub>2</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>
25.215	0.435	59.821	0.090	0.172	1.076
STANDARD					
23.822	0.519	60.503	0.121	0.242	1.282

BODY TEST	L	a	b
PACKED BATCH	88.60	0.15	7.10
STANDARD	88.55	0.14	7.01
			DELTA E=0.103

WHITE GLAZE TEST	L	a	b
PACKED BATCH	83.57	2.29	1.99
STANDARD	83.31	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	1.82	14.00	26.00	87.10	82.33	57.20	22.44
STANDARD	2.85	14.10	22.80	85.06	68.23	36.89	14.19
Grain Size	S.G.	Size mm	Moisture (%)	Density g/cm <sup>3</sup>	L whiteness	Hardness	PH
d50 - 1.1 μ	4.5	0.001 mm	0.70%	0.8	83.57	7.5 on the MOHs scale	> 7

# OPAQUE

CERAMICS

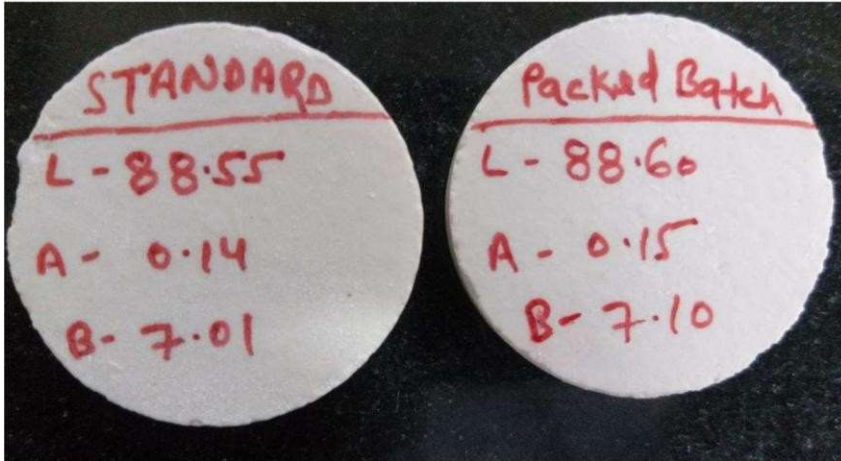
NAVRATNA CORPORATE PARK  
Office no. 207 & 208 "A" Block  
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iscon ambali bopal road  
ambali, ahmedabad, 380058



*Ashish*



BODY Button Test & Lab Values 1200°C



White Glaze Strip Test and Lab Values 1080°C



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OPERATOR:INSTRUMENT  
OPERATOR

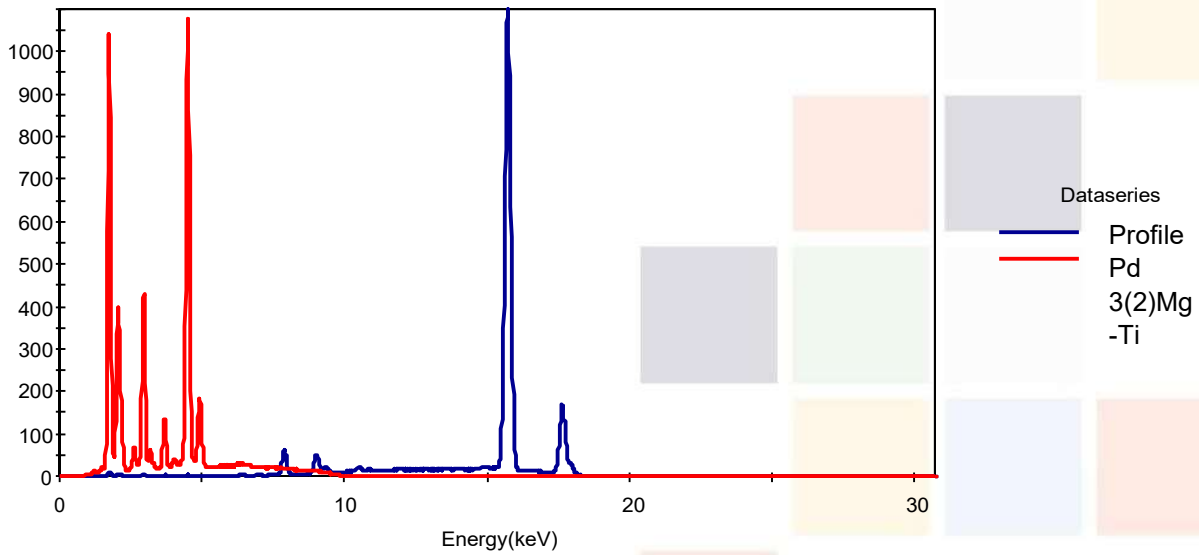
AnalysisMethod: OPAQUE ZIRCON 2022

AnalyteConcentrationTable

Element	Line	Concentration
ZrO2	Ka	25.215 Wt%
HfO2	La	0.435 Wt%
SiO2	K	59.821 Wt%
Fe2O3	Ka	0.090 Wt%
TiO2	Ka	0.172 Wt%
Al2O3	Ka	1.076 Wt%

Spectra for all conditions

Intensity(cps)



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



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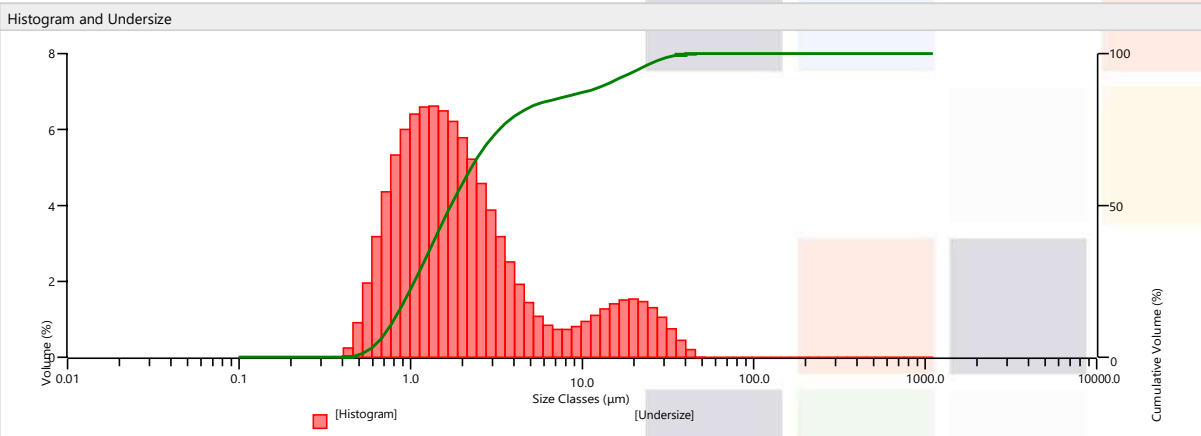
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Analysis	Result
<b>Particle Name</b> ZIRCON PO <b>Particle Refractive Index</b> 1.930 <b>Particle Absorption Index</b> 0.100 <b>Dispersant Name</b> Water <b>Dispersant Refractive Index</b> 1.330 <b>Scattering Model</b> Mie <b>Analysis Model</b> General Purpose <b>Weighted Residual</b> 1.01 % <b>Laser Obscuration</b> 4.70 % <b>Ultrasonication Duration (SOP)</b> 1.00 s	<b>Specific Surface Area</b> 3964 m <sup>2</sup> /kg <b>D [3,2]</b> 1.51 μm <b>D [4,3]</b> 4.41 μm <b>Dv (10)</b> 0.753 μm <b>Dv (50)</b> 1.72 μm <b>Dv (90)</b> 14.0 μm <b>Dv (97)</b> 26.0 μm <b>Volume Below (1) μm</b> 22.44 % <b>Volume Below (2) μm</b> 57.20 % <b>Volume Below (5) μm</b> 82.33 % <b>Volume Below (10) μm</b> 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	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	454	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	516	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	586	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	666	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	756	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	859	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	976	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	1110	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		



*Handwritten signature*

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