



ZIRCOPAQUE 5 MICRON C5 GRADE - 62% 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 ₂	HfO ₂	SiO ₂	Fe ₂ O ₃	TiO ₂	Al ₂ O ₃
64.410	1.169	32.382	0.110	0.169	0.755
STANDARD					
64.321	1.182	32.685	0.130	0.172	0.788

WHITE GLAZE TEST	L	a	b
PACKED BATCH	87.75	1.59	0.15
STANDARD	87.89	1.61	0.49
			DELTA E=0.368

BLACK GLAZE TEST	L	a	b
PACKED BATCH	47.73	0.18	4.75
STANDARD	47.85	0.15	4.61
			DELTA E=0.187

PARTICLE REPORT							
	D-50	D-90	D-97	%OF PARTICLES BELOW			
				10MIC.	5MIC.	2MIC.	1MIC.
PACKED BATCH	0.995	2.47	3.43	100	99.83	83.13	50.26
STANDARD	1.04	2.64	3.59	100	99.49	82.41	48.89
Grain Size	S.G.	Size mm	Moisture (%)	Density g/cm ³	L whiteness	Hardness	PH
d50 - 1.00 μ	4.5	0.001 mm	0.70%	0.8	87.75	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



Arvind



WhiteGlazeStripTestandLabValues1080°C

STANDARD			Packed Batch		
L	A	B	L	A	B
87.89	1.61	0.49	87.75	1.59	0.51

BlackGlazeStripTestandLabValues1080°C

STANDARD			Packed Batch		
L	A	B	L	A	B
47.85	0.15	4.61	47.73	0.18	4.75



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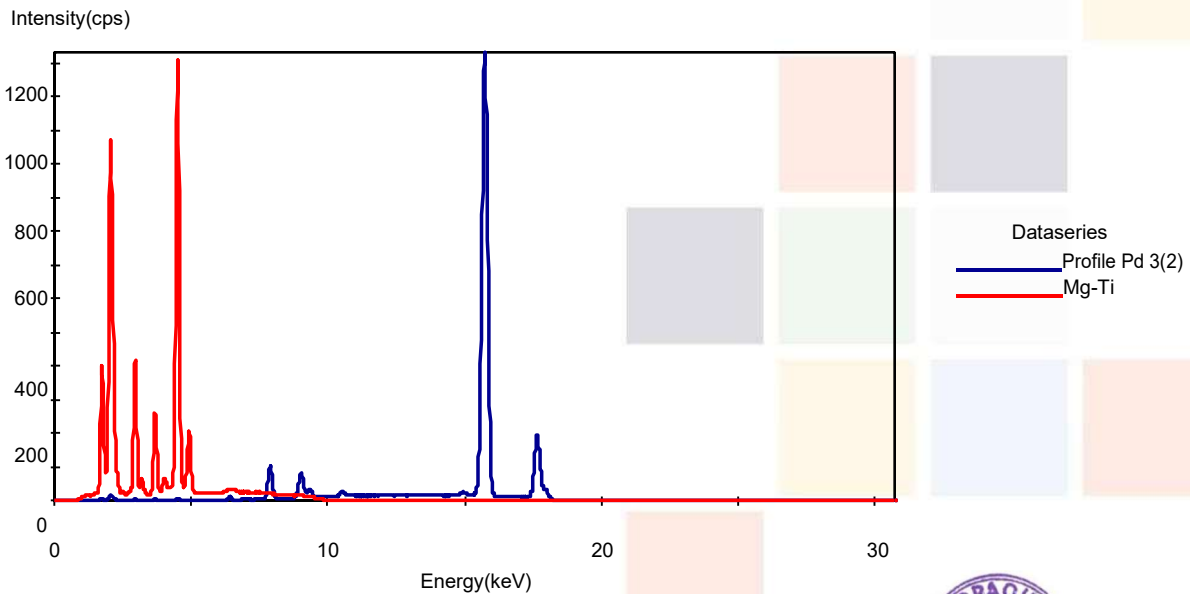
OPERATOR: INSTRUMENT
OPERATOR

Analysis Method: OPAQUE 2021

Analyte Concentration Table

Element	Line	Concentration
ZrO2	Ka	64.410 Wt %
HfO2	La	1.169 Wt %
SiO2	K	32.382 Wt %
Fe2O3	Ka	0.110 Wt %
TiO2	Ka	0.169 Wt %
Al2O3	Ka	0.755 Wt %

Spectra for all conditions



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



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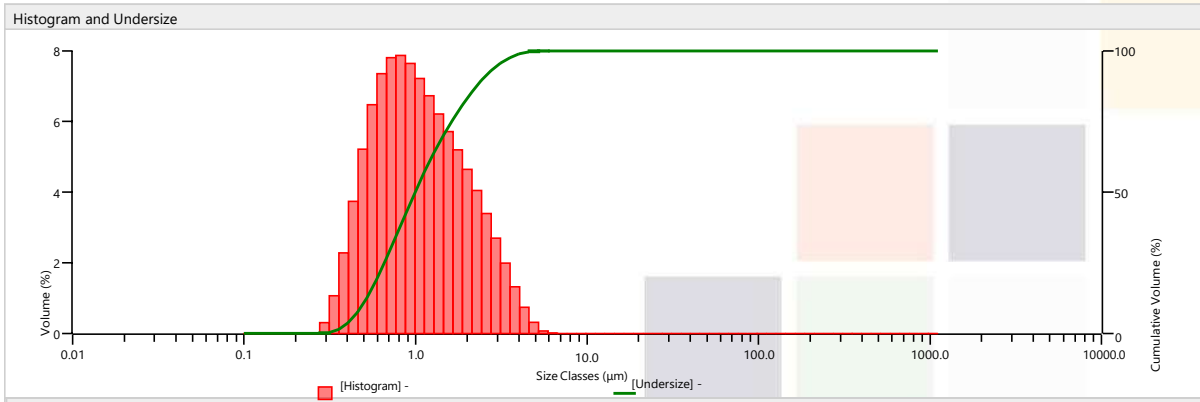
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OPAQUE CERAMICS PVT. LTD.

Analysis	Result
Particle Name ZIRCOPAQUE (5 MICRON) 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 0.88 % Laser Obscuration 9.38 % Ultrasonication Duration (SOP) 1.00 s	Specific Surface Area 6751 m ² /kg D [3,2] 0.889 μm D [4,3] 1.27 μm Dv (10) 0.491 μm Dv (50) 0.995 μm Dv (90) 2.47 μm Dv (97) 3.43 μm Volume Below (1) μm 50.26 % Volume Below (2) μm 83.13 % Volume Below (5) μm 99.83 % Volume Below (10) μm 100.00 %



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	3.74	1.65	5.19	6.72	0.00	27.4	0.00	111	0.00
0.113	0.00	0.461	5.21	1.88	4.65	7.64	0.00	31.1	0.00	127	0.00
0.128	0.00	0.523	6.47	2.13	4.05	8.68	0.00	35.3	0.00	144	0.00
0.146	0.00	0.594	7.35	2.42	3.39	9.86	0.00	40.1	0.00	163	0.00
0.166	0.00	0.675	7.81	2.75	2.70	11.2	0.00	45.6	0.00	186	0.00
0.188	0.00	0.767	7.87	3.12	1.99	12.7	0.00	51.8	0.00	211	0.00
0.214	0.00	0.872	7.64	3.55	1.32	14.5	0.00	58.9	0.00	240	0.00
0.243	0.00	0.991	7.22	4.03	0.74	16.4	0.00	66.9	0.00	272	0.00
0.276	0.30	1.13	6.72	4.58	0.31	18.7	0.00	76.0	0.00	310	0.00
0.314	1.07	1.28	6.21	5.21	0.07	21.2	0.00	86.4	0.00	352	0.00
0.357	2.27	1.45	5.71	5.92	0.00	24.1	0.00	98.1	0.00	400	0.00

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