



ZIRCOPAQUE1 MICRON C - 45 % 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
45.485	0.859	40.951	0.064	0.174	1.510
STANDARD					
45.163	0.819	41.239	0.128	0.228	1.177

BODY TEST	L	a	b
PACKED BATCH	89.82	0.27	6.10
STANDARD	89.55	0.10	5.98
			DELTA E=0.341

WHITE GLAZE TEST	L	a	b
PACKED BATCH	85.69	0.17	0.50
STANDARD	85.99	0.22	0.61
			DELTA E=0.323

PARTICLE REPORT							
	D-50	D-90	D-97	% OF PARTICLES BELOW			
				10MIC.	5MIC.	2MIC.	1MIC.
PACKED BATCH	1.41	4.25	21.8	93.70	91.67	68.00	29.85
STANDARD	1.70	7.23	22.2	93.16	86.87	60.66	27.39
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	85.69	7.5 on the MOHs scale	> 7

O P A Q U E

C E R A M I C S

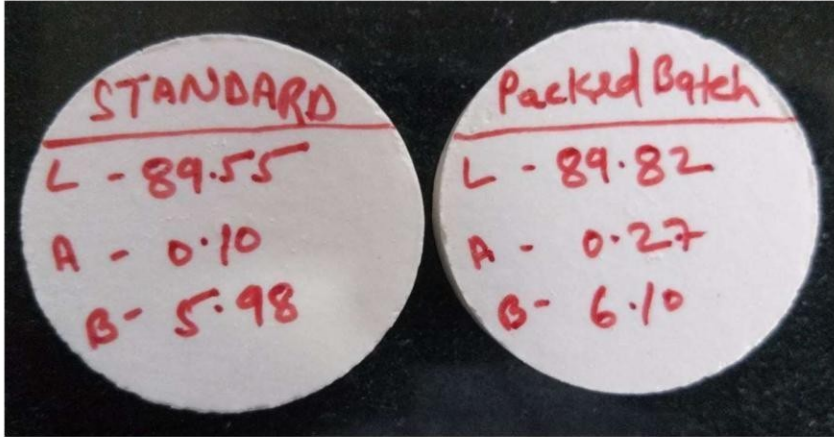
NAVRATNA CORPORATE PARK
Office no. 207 & 208 "A" Block
Opp. Dishman corporate house
iscon ambali bopal road
ambali, ahmedabad, 380058



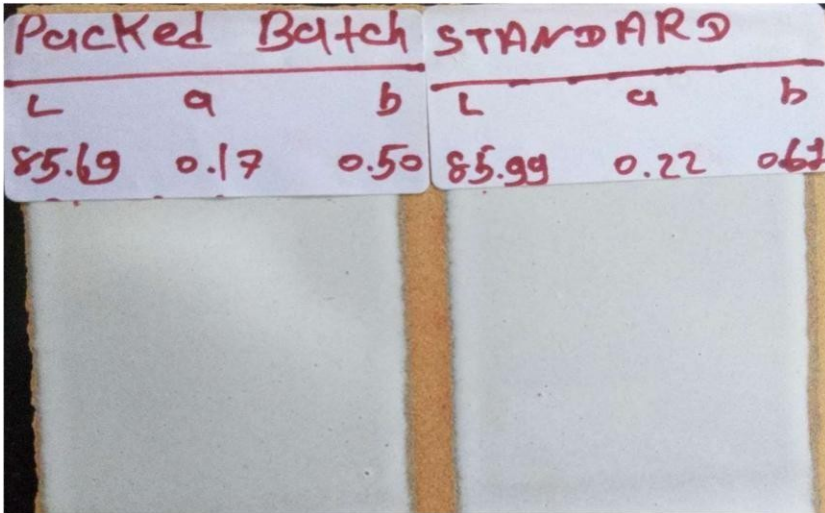
Anil



BODY Button Test & Lab Values 1200°C



White Glaze Strip Test and Lab Values 1080°C



Rishal

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OPERATOR: INSTRUMENT
OPERATOR

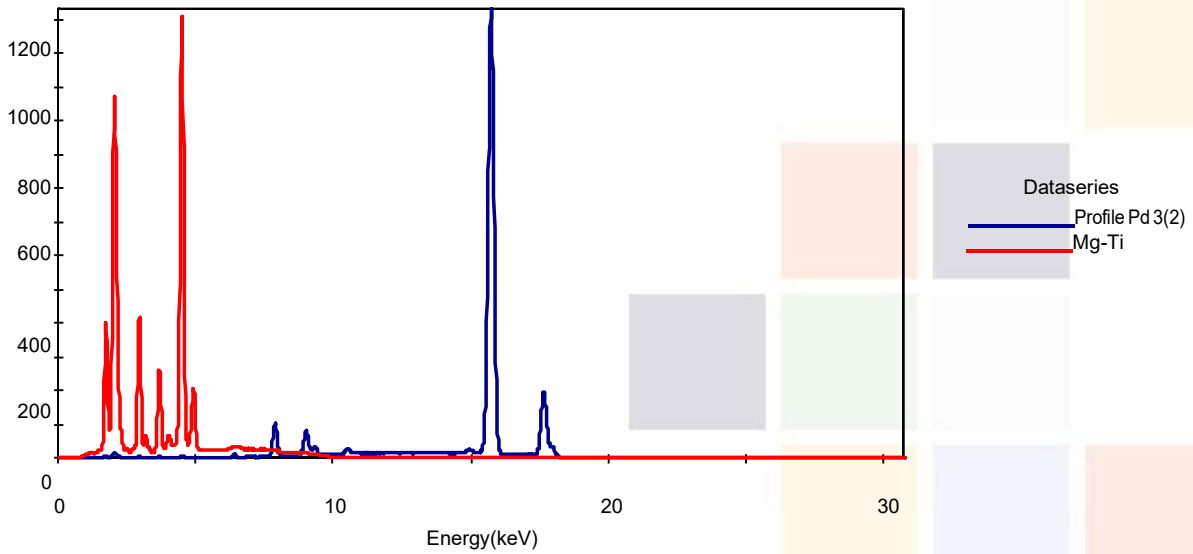
AnalysisMethod: OPAQUE ZIRCON 2022

Analyte Concentration Table

Element	Line	Concentration
ZrO2	Ka	45.485 Wt %
HfO2	La	0.859 Wt %
SiO2	K	40.951 Wt %
Fe2O3	Ka	0.064 Wt %
TiO2	Ka	0.174 Wt %
Al2O3	Ka	1.510 Wt %

Spectra for all conditions

Intensity(cps)



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



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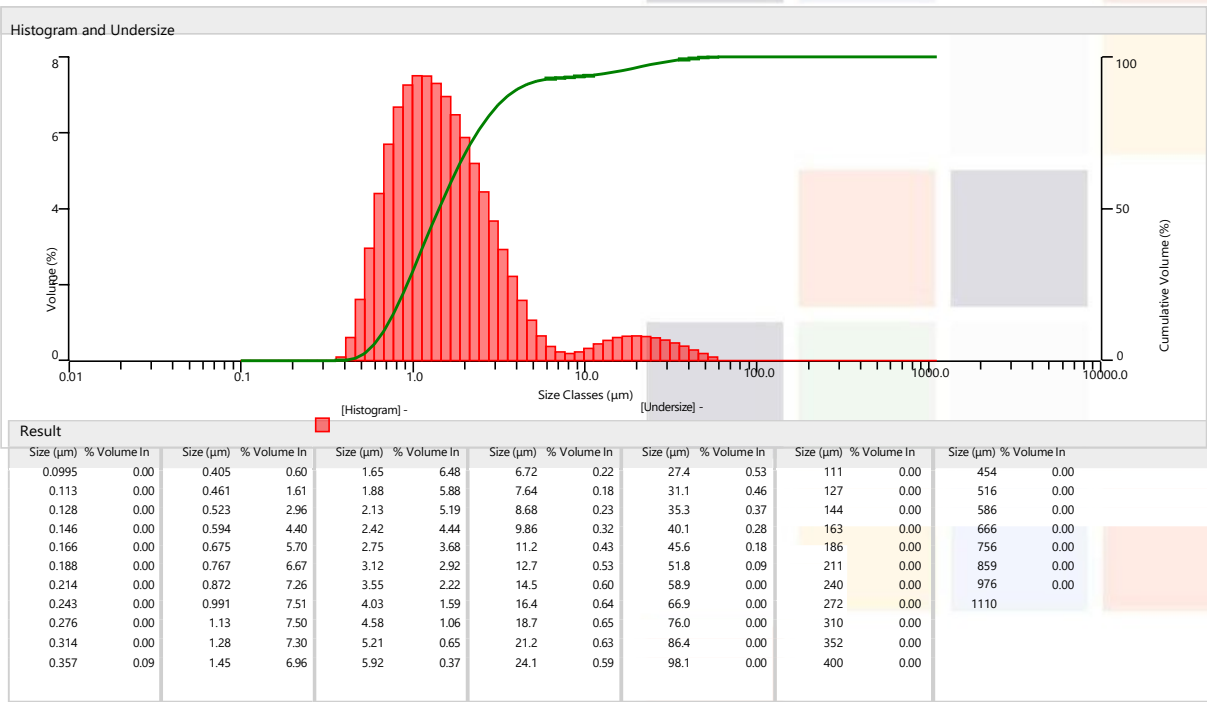
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OPAQUE CERAMICS PVT. LTD.

Analysis	Result
Particle Name ZIRCOPAQUE (1 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 0.86 % Laser Obscuration 10.02 % Ultrasonication Duration (SOP) 1.00 s	Specific Surface Area 4726 m ² /kg D [3,2] 1.27 μm D [4,3] 3.08 μm Dv (10) 0.681 μm Dv (50) 1.41 μm Dv (90) 4.25 μm Dv (97) 21.8 μm Volume Below (1) μm 29.85 % Volume Below (2) μm 68.00 % Volume Below (5) μm 91.67 % Volume Below (10) μm 93.70 %



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