



OPAQUE
CERAMICS
OBSESSED WITH QUALITY

LABORATORY TEST REPORT



1 MICRON P

TECHNICAL SPECIFICATIONS & TEST REPORT

High purity zircon based opacifier designed for superior opacity, whiteness and consistent glaze performance in ceramic applications.

CHEMICAL ANALYSIS (%)

PARAMETER	STANDARD	BATCH
ZrO ₂	60.54 (±0.50%)	60.78
HfO ₂	1.05 (±0.50%)	1.05
SiO ₂	34.85 (±0.50%)	35.10
Fe ₂ O ₃	0.06 (±0.01%)	0.06
TiO ₂	0.26 (±0.03%)	0.25
Al ₂ O ₃	1.75 (±0.20%)	1.71

PERFORMANCE TEST RESULTS

ZIRCON TEST (1200°C)

TYPE	L	a	b	ΔE
1 MICRON P STANDARD	97.43	0.28	3.63	0.133
1 MICRON P BATCH	97.51	0.21	3.55	

WHITE GLAZE TEST (1150°C)

TYPE	L	a	b	ΔE
1 MICRON P STANDARD	87.95	-0.62	-2.97	0.388
1 MICRON P BATCH	88.12	-0.40	-2.70	

BLACK GLAZE TEST (1150°C) / BODY BUTTON TEST (1200°C)

TYPE	L	a	b	ΔE
1 MICRON P STANDARD	46.95	-0.75	-6.28	0.381
1 MICRON P BATCH	47.05	-1.02	-6.53	

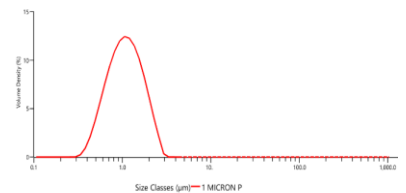
PROPERTIES

RADIOACTIVITY	RESULT/ACTIVITY
Thorium (232Th parent)	0,46 Bq/g(±2,5%)
Uranium (238U parent)	2,95 Bq/g(±2,5%)
Total (232Th + 238U)	3,42 Bq/g(±2,5%)
Thorium (Th)	114,00 ppm
Uranium(U)	237,00 ppm
SPECIFIC GRAVITY	4,60 g/cm3
LOSS ON IGNITION	1,00% max.

PARTICLE SIZE SUMMARY

PARAMETER		STANDARD	BATCH	
D-50 (μm)		1.28	1.26	
D-90 (μm)		2.97	2.47	
D-97 (μm)		4.02	3.14	
% OF PARTICLE BELOW				
	1 μm	2 μm	5 μm	10 μm
STANDARD	33.71	79.04	99.68	100.00
BATCH	34.27	80.07	100.00	100.00

PARTICLE SIZE DISTRIBUTION



LAB DISPOSITION

LAB MANAGER APPROVAL



QUALITY YOU CAN TRUST.

PERFORMANCE YOU CAN SEE.



APPROVED



R.K. Singh

MR. R.K. SINGH
AUTHORIZED SIGNATORY



BLOCK- A, OFFICE NO. 207, NAVRATNA CORPORATE PARK,
OPP. DISHMAN CORPORATE HOUSE, AMBALI BOPAL ROAD,
AHMEDABAD, AHMEDABAD, GUJARAT, 380058



www.opaqueceramics.com



exports@opaqueceramics.com

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