



OPAQUE
CERAMICS
OBSESSED WITH QUALITY

LABORATORY TEST REPORT



ZIRCON PO

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	26.92 (±2.00%)	27.66
HfO ₂	0.51 (±0.20%)	0.51
SiO ₂	66.47 (±2.00%)	66.17
Fe ₂ O ₃	0.05 (±0.06%)	0.05
TiO ₂	0.27 (±0.06%)	0.26
Al ₂ O ₃	1.81 (±2.00%)	1.88

PERFORMANCE TEST RESULTS

ZIRCON TEST (1200°C)

TYPE	L	a	b	ΔE
STANDARD	97.77	0.37	3.27	0.353
BATCH	97.45	0.49	3.36	

WHITE GLAZE TEST (1150°C)

TYPE	L	a	b	ΔE
STANDARD	83.37	-0.50	-4.99	0.291
BATCH	83.28	-0.23	-5.05	

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

TYPE	L	a	b	ΔE
STANDARD	88.55	0.16	6.65	0.346
BATCH	88.37	0.28	6.92	

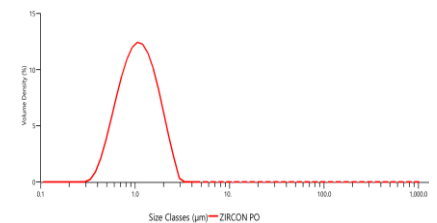
PROPERTIES

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)		1.92		1.86
D-90 (μm)		8.24		8.06
D-97 (μm)		16.10		15.20
% OF PARTICLE BELOW				
	1 μm	2 μm	5 μm	10 μm
STANDARD	20.51	52.89	82.15	92.50
BATCH	20.73	53.38	82.63	92.79

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



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