



OPAQUE
CERAMICS
OBSESSED WITH QUALITY

LABORATORY TEST REPORT



1 MICRON C

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	44.77 (±2.00%)	45.17
HfO ₂	0.86 (±0.20%)	0.86
SiO ₂	51.47 (±2.00%)	51.24
Fe ₂ O ₃	0.06 (±0.06%)	0.05
TiO ₂	0.25 (±0.06%)	0.24
Al ₂ O ₃	1.54 (±2.00%)	1.55

PERFORMANCE TEST RESULTS

ZIRCON TEST (1200°C)

TYPE	L	a	b	ΔE
STANDARD	97.43	0.25	3.47	0.320
BATCH	97.70	0.15	3.33	

WHITE GLAZE TEST (1150°C)

TYPE	L	a	b	ΔE
STANDARD	86.42	-0.25	-3.78	0.492
BATCH	86.70	-0.11	-3.40	

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

TYPE	L	a	b	ΔE
STANDARD	45.79	-1.57	-7.21	0.279
BATCH	45.58	-1.40	-7.28	

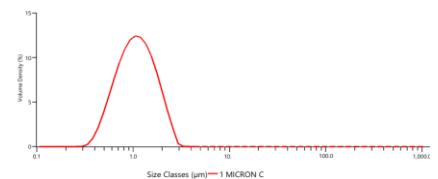
PROPERTIES

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)		1.56		1.50
D-90 (μm)		7.64		8.74
D-97 (μm)		14.50		15.40
% OF PARTICLE BELOW				
	1 μm	2 μm	5 μm	10 μm
STANDARD	29.25	63.89	85.33	92.81
BATCH	28.17	82.96	99.94	91.91

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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