



OPAQUE
CERAMICS
OBSESSED WITH QUALITY

LABORATORY
TEST REPORT



Zircon Flour D

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	65.70 (±2.00%)	65.93
HfO ₂	1.21 (±0.20%)	1.21
SiO ₂	30.34 (±2.00%)	30.16
Fe ₂ O ₃	0.06 (±0.06%)	0.05
TiO ₂	0.26 (±0.06%)	0.24
Al ₂ O ₃	1.48 (±2.00%)	1.46

PERFORMANCE TEST RESULTS

ZIRCON TEST (1200°C)

TYPE	L	a	b	ΔE
STANDARD	93.19	1.26	6.5	0.388
BATCH	93.44	1.36	6.22	

WHITE GLAZE TEST (1150°C)

TYPE	L	a	b	ΔE
STANDARD	82.20	0.92	1.10	0.366
BATCH	82.14	0.68	0.83	

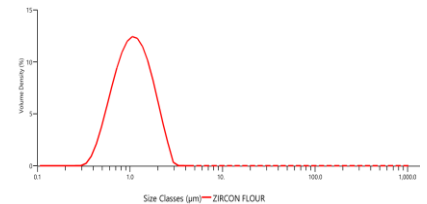
PROPERTIES

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)		4.91	5.22	
D-90 (μm)		17.4	16.2	
D-97 (μm)		26.00	23.20	
% OF PARTICLE BELOW				
	1 μm	2 μm	5 μm	10 μm
STANDARD	12.35	29.01	52.19	73.14
BATCH	11.73	25.09	48.62	73.82

PARTICLE SIZE DISTRIBUTION



LAB DISPOSITION

LAB MANAGER APPROVAL



QUALITY YOU CAN TRUST.
PERFORMANCE YOU CAN SEE.



APPROVED



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MR. R.K. SINGH
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