

Opacifiers Specifications

	Ultrox	Ultrox 500W	Ultrox Extra	Ultrox 1000W	Ultrox 2000W
ZrO₂ (%) minimum	63.5	63	63	63	63
SiO₂ (%) maximum	34.3	34.3	34.3	34.3	34.3
Al₂O₃ (%) maximum	1.4	1.4	1.4	1.4	1.4
TiO₂ (%) maximum	0.15	0.15	0.15	0.15	0.15
Fe₂O₃ (%) maximum	0.075	0.075	0.075	0.075	0.075
U + Th (ppm) maximum	500	500	500	500	500
Melting Point (°C)	2,205	2,205	2,205	2,205	2,205
Specific Gravity	4.5	4.5	4.5	4.5	4.5
Refractive Index	2	2	2	2	2
Hardness (Mohs)	7.5	7.5	7.5	7.5	7.5
Thermal Exp. Coef. (cm / °C)	4.2 x 10⁻⁶	4.2 x 10⁻⁶	4.2 x 10⁻⁶	4.2 x 10⁻⁶	4.2 x 10⁻⁶
Particle Size (Microns) d 50 %	1.6 ± 0.2	1.05 – 1.35	0.91 - 1.21	0.65 - 0.95	0.55 - 0.85
Magnetic Fe₂O₃ (%) maximum	0.001	0.001	0.001	0.001	0.001
Test on tile vs Control lot (DE) maximum	0.4	0.4	0.4	0.4	0.4
Residue in 325 Mesh (%) maximum	-----	-----	-----	-----	-----
Residue in 400 Mesh (%) maximum	0.1	0.1	0.1	0.1	0.1