

TOR BRITE

THE SYNTHETIC ULTRA-WHITE PIGMENT



MAKE TiO_2

EVEN BRIGHTER!



TOR BRITE® · TOR BRITE® F ALUMINUM MONOHYDRATE

DESCRIPTION

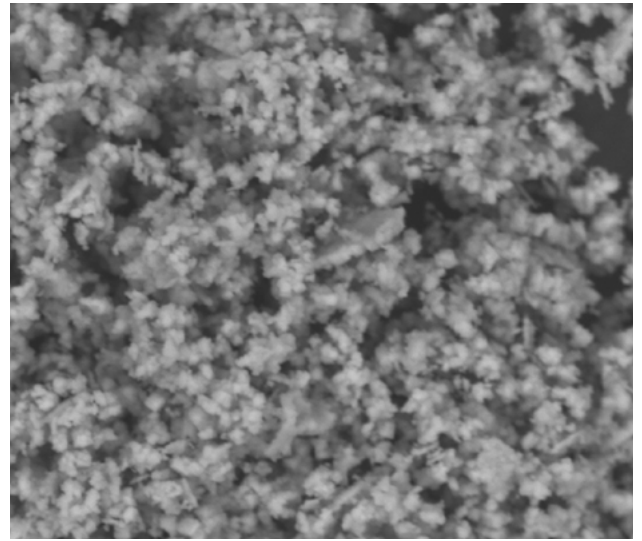
TOR BRITE offers exceptional brightness / whiteness as a TiO₂ synergist in applications including Paints & Coatings, Solid Surface, Engineered Stone and Gel Coats. Substitution of up to 35% of the white TiO₂ content in formulation can improve whiteness due to TOR BRITE's inherent low b value. Additional benefits of TOR BRITE include excellent processing behavior, low settling, easy cleaning behavior and flame retardant / smoke suppressant performance. TOR BRITE improves scratch resistance in Coatings and Solid Surface.

CHEMICAL ANALYSIS (TYPICAL)	TOR BRITE	TOR BRITE F
AlO(OH) content, %	99.9	99.9
Na ₂ O, %	0.07	0.07
CaO	0.01	0.01
SiO ₂ , %	0.01	0.01
Fe ₂ O ₃ , %	0.01	0.01
Moisture Content (105° C), %	0.3	0.3
Loss on Ignition (LOI) (1200°), %	17	17
Conductivity (μS/cm)	150	200

PHYSICAL PROPERTIES (TYPICAL)

Particle Size (laser, Sympatec) - d ₅₀ , (μm)	2.5	1.0
Specific Surface, (m ² /g)	4.5	12
Specific Density, (g/cm ³)	3.0	3.0
Bulk density, (kg/m ³)	600	600
Oil Absorption, (%)	35	28
Hardness (Mohs)	4.5	4.5
Refractive Index	1.7	1.7

TiO₂ vs. TOR BRITE



SEM PICTURE OF TOR BRITE

PURE POWDER	PREMIUM TiO₂ RUTILE	TOR BRITE
L*	95.49	97.79
a*	-0.70	0.11
b*	1.96	0.91
WI CIE*	79.94	90.37

PIGMENT IN CURED UP RESIN	PREMIUM TiO₂ RUTILE <small>16% TiO₂ in resin</small>	TOR BRITE <small>10.4% TiO₂ + 5.6% TOR BRITE</small>
L*	98.45	98.05
a*	-0.72	-0.55
b*	1.57	1.35

ENGINEERED STONE COMPOUND	PREMIUM TiO₂ RUTILE <small>3% TiO₂</small>	TOR BRITE <small>2% TiO₂ + 1% TOR BRITE</small>
L*	92.5	93.7
a*	-0.30	-0.25
b*	2.7	1.3

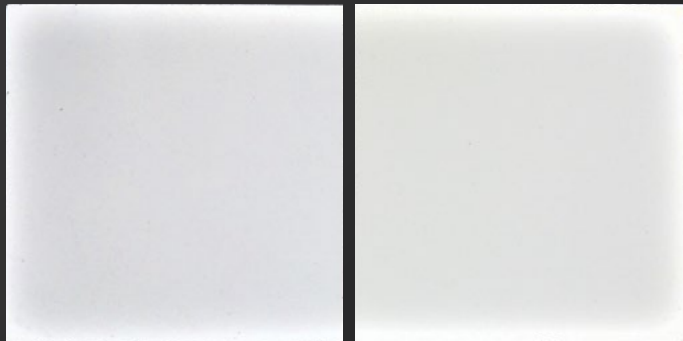
TOR BRITE IS THE PERFECT SYNERGIST TO TiO_2 , IMPROVES COLOR BRIGHTNESS AND REDUCES THE b VALUE (LESS YELLOW).

SUGGESTED APPLICATIONS = REPLACE 10-35% TiO_2

- Paints & Coatings
- Gel Coats
- Solid Surface
- Engineered Stone
- Masterbatch
- Paper

COMPOUND WITH TOR BRITE

70% filler, 27% UP resin
2% TiO_2 and 1% TOR
BRITE



L* = 93.7 / a* = -0.25 / b* = 1.3 L* = 92.5 / a* = -0.30 / b* = 2.7

COMPOUND WITHOUT TOR BRITE

70% filler, 27% UP resin
3% TiO_2

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