

Physical Properties

Parameter	Unit	Value
Brightness	%	96.6
Particle Size — Mean	μm	6.115
pH (10% w/v)	—	8.0
Density	g/mL	0.45
Moisture	%	0.33
Oil Adsorption	g oil/g	0.468
Residue (400 Mesh)	%	0.0607

- Brightness measured via Color Calculations CIE D65.
- Density measured by water displacement method.
- Moisture calculated from weight loss at 100 °C.
- Oil adsorption calculated from absorbed mineral oil weight.

Chemical Composition

Constituent	Unit	Value
SiO ₂	% w/w	72.20
Al ₂ O ₃	% w/w	13.70
K ₂ O	% w/w	3.34
Fe ₂ O ₃	% w/w	1.78
MgO	% w/w	0.74
Na ₂ O	% w/w	0.98
CaO	% w/w	0.53
TiO ₂	% w/w	0.39
P ₂ O ₅	% w/w	ND

- Chemical analysis by ICP-OES, Dept. of Chemistry, Faculty of Science, Silpakorn University.
- ND = Not Detected.

Storage & Shelf Life

For optimal performance, **UT-WHITE** should be stored in its original packaging, in dry conditions and not in direct contact with the ground or moisture sources. When stored correctly, product performance is maintained for a minimum of **12 months** from the date of production.

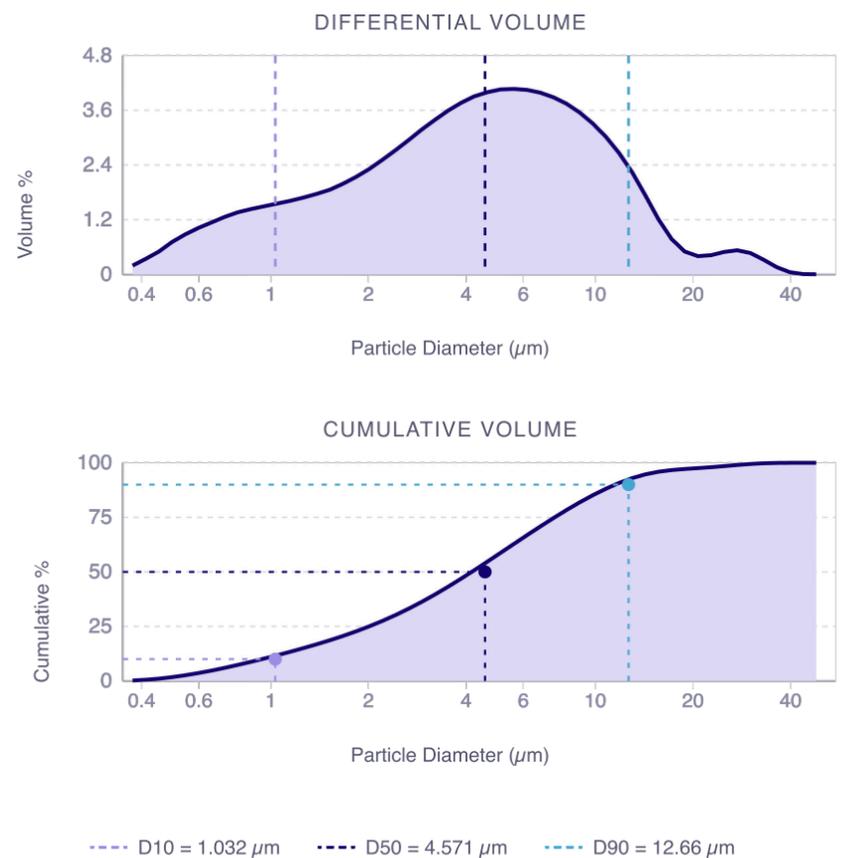
Certification

UT-WHITE is tested and verified by the Department of Chemistry, Faculty of Science, Silpakorn University (Nakhon Pathom) using ICP-OES chemical analysis and Beckman Coulter LS 100Q laser diffraction particle size analysis (Fraunhofer optical model).

Tested: 21 Jan 2026 · Issued: 4 Feb 2026

Particle Size Distribution

Measured by laser diffraction (Beckman Coulter LS 100Q, Fraunhofer model, Small Volume Module). Fluid: water. Run length: 40 seconds. Obscuration: 65%.



% <	10	25	50	75	90
Size (μm)	1.032	2.206	4.571	8.230	12.66

Volume Statistics

MEAN 6.115 μm	S.D. 5.66 μm
MEDIAN 4.571 μm	C.V. 92.5 %
D(3,2) 2.599 μm	SKEWNESS 2.23 right-skewed
MODE 5.878 μm	KURTOSIS 7.07 leptokurtic

· Calculations from 0.375 μm to 948 μm.