

Physical Properties

Parameter	Unit	Value
Brightness	%	94.1
Particle Size — Mean	μm	5.487
pH (10% w/v)	—	7.6
Density	g/mL	0.41
Moisture	%	0.86
Oil Adsorption	g oil/g	0.511
Residue (400 Mesh)	%	0.000

- 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	67.60
Al ₂ O ₃	% w/w	16.80
K ₂ O	% w/w	4.31
Fe ₂ O ₃	% w/w	2.45
MgO	% w/w	0.94
Na ₂ O	% w/w	0.58
CaO	% w/w	0.25
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-WASH** 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.

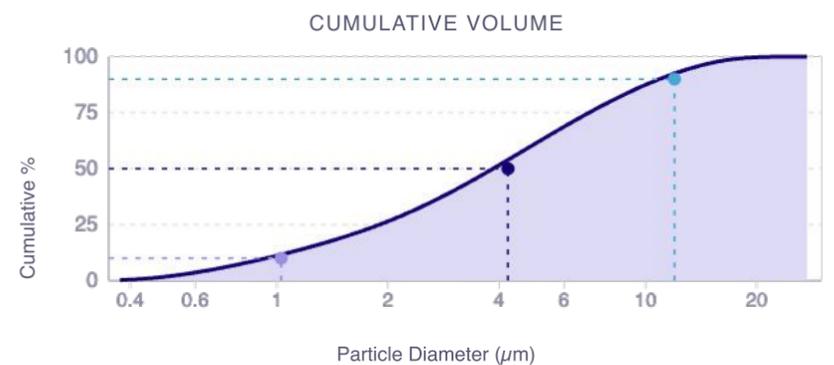
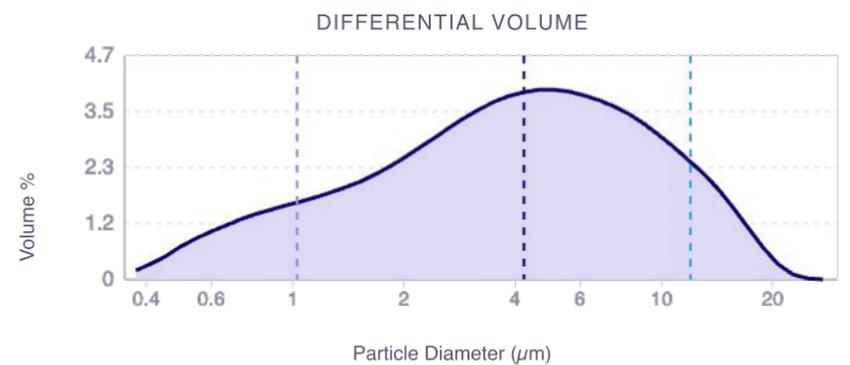
Certification

UT-WASH 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.



--- D10 = 1.027 μm --- D50 = 4.233 μm --- D90 = 11.97 μm

% <	10	25	50	75	90
Size (μm)	1.027	2.082	4.233	7.715	11.97

Volume Statistics

MEAN 5.487 μm	S.D. 4.41 μm
MEDIAN 4.233 μm	C.V. 80.3 %
D(3,2) 2.513 μm	SKEWNESS 1.24 right-skewed
MODE 5.355 μm	KURTOSIS 1.22 leptokurtic

· Calculations from 0.375 μm to 948 μm.