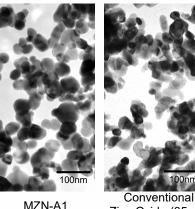


- New Zinc Oxide with High UVA Protection MZN-A1
- · MZN-A1 is a new zinc oxide that optimizes the particle shape (spherical) and particle size (40 nm) by an unique manufacturing method which enables to shield UVA more efficiently.
- Due to its excellent dispersibility, the original function of zinc oxide (high transparency and high UVA shielding ability) are exhibited at a high level.

Product Information

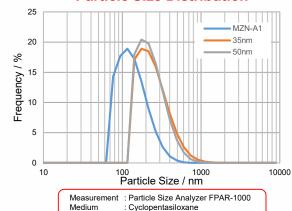
Item	MZN-A1		
INCI	ZINC OXIDE TRIETHOXYCAPRYLYLSILANE		
Primary Particle Size	40nm		
Appearance	White - Pale Yellow		
Surface Characteristics	Hydrophobic		

TEM Image



Zinc Oxide (35nm)

Particle Size Distribution



Concentration: 0.5%

Emulsion Evaluation

SPF/UVAPF in vitro

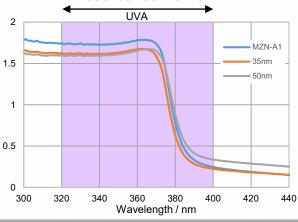
Sample	SPF	UVAPF	CWL	
MZN-A1	44	21	374	
35nm	36	17	372	Abs
50nm	34	19	375	

Each Measurement Condition Formulation : W/O emulsion

Dosage : 25% Amount of coating: 1.3mg/cm² : PMMA Base

: SPF Analyzer UV-2000S Measurement

Absorbance Curve



Transparency

