

GLOBALLY COMPATIBLE, HIGH TRANSPARENT MICRO ZINC OXIDE **MZX-OTS-2**

This product is 25 nm-sized Micro Zinc Oxide treated with Triethoxycaprylylsilane, offering high UV protection and transparency. It complies with regulations around the world as a UV filter, and is expected to establish a GMP production system by the end of 2025.

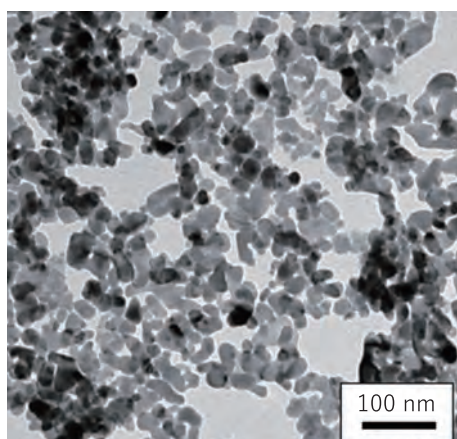
Grade	Primary Particle Size	INCI	EU※1	China※2	US※3	Natural Origin Index
MZX-OTS-2	25 nm	ZINC OXIDE TRIETHOXYCAPRYLYLSILANE	○	○	Coming soon	0.94

※1: Regulation (EC) No 1223/2009

※2: IECIC Registration Status

※3: Usability in U.S. OTC Sunscreens

TEM Image



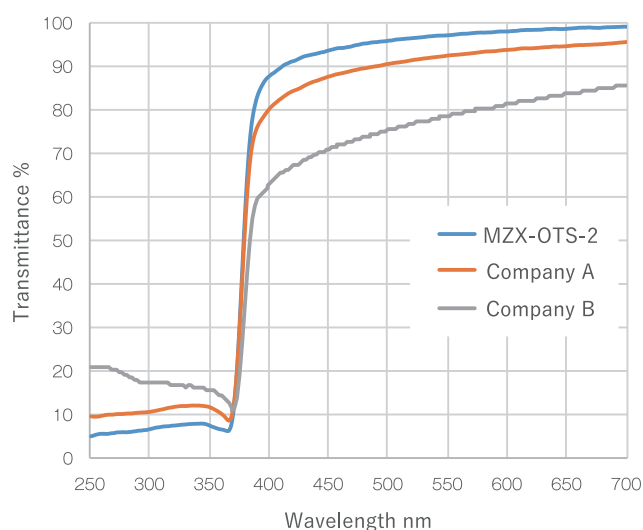
SPF/UVAPF *in vitro*

Dosage	12 %			24 %		
Grade	SPF	UVAPF	CW	SPF	UVAPF	CW
MZX-OTS-2	21	8	372 nm	44	18	372 nm
Company A (OTS※4Treated)	12	7	374 nm	31	18	374 nm
Company B (OTS※4Treated)	11	12	379 nm	31	26	380 nm

※4: OTS Triethoxycaprylylsilane

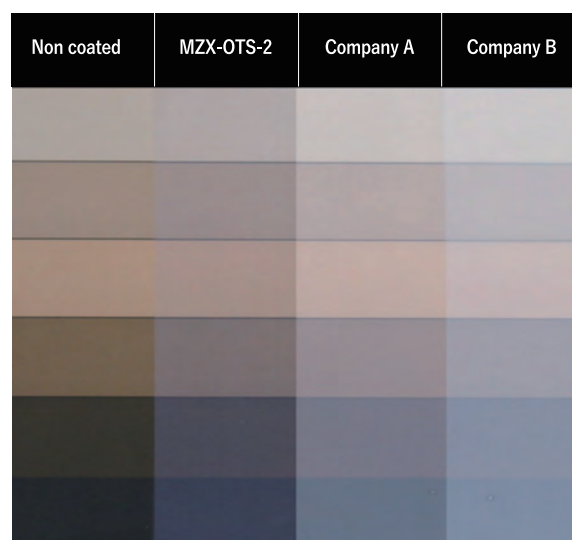
Formulation : W/O Emulsion Application Amount : 1.3 mg/cm²
 Base : PMMA HD6 Measurement : SPF Analyzer UV-2000S

Transmittance Curve



Formulation : W/O Emulsion
 Dosage : 12 % (as solid)
 Film Thickness : 10 μm
 Base : Polypropylene Film
 Measurement : Spectrophotometer HITACHI U-4100

Transparency



Formulation : W/O Emulsion Dosage : 12 % (as solid)
 Film Thickness : 10 μm Base : Polypropylene Film
 Background : SKIN TONE COLOR CHART