

GLOBALLY COMPATIBLE
MICRO ZINC OXIDE



TAYCA

MZX-3040TS

This product is a 35 nm-sized Micro Zinc Oxide treated with Triethoxycaprylylsilane, and is particularly effective in protecting against UVA rays. It complies with regulations around the world as a UV filter and is also HALAL certified.

※HALAL certification is limited to non-GMP grades and the Indonesian market as of May 2025.

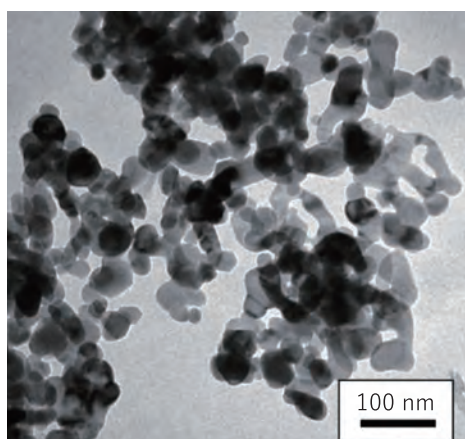
Grade	Primary Particle Size	INCI	EU ※1	China ※2	US ※3	Natural Origin Index
MZX-3040TS	35 nm	ZINC OXIDE TRIETHOXYCAPRYLYLSILANE	○	○	○	0.96

※1: Regulation (EC) No 1223/2009

※2: IECIC registration status

※3: Usability in U.S. OTC sunscreens

TEM Image



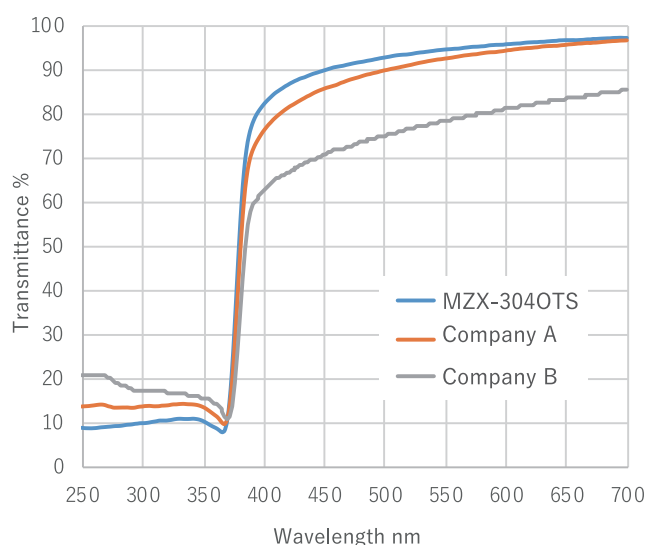
SPF/UVAPF *in vitro*

Dosage	12 %			24 %		
Grade	SPF	UVAPF	CW	SPF	UVAPF	CW
MZX-3040TS	18	10	374 nm	40	21	374 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 Coating Amount : 1.3 mg/cm²
Base : PMMA HD6 Measurement : SPF Analyzer UV-2000S

Transmittance Curve



Transparency



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

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