

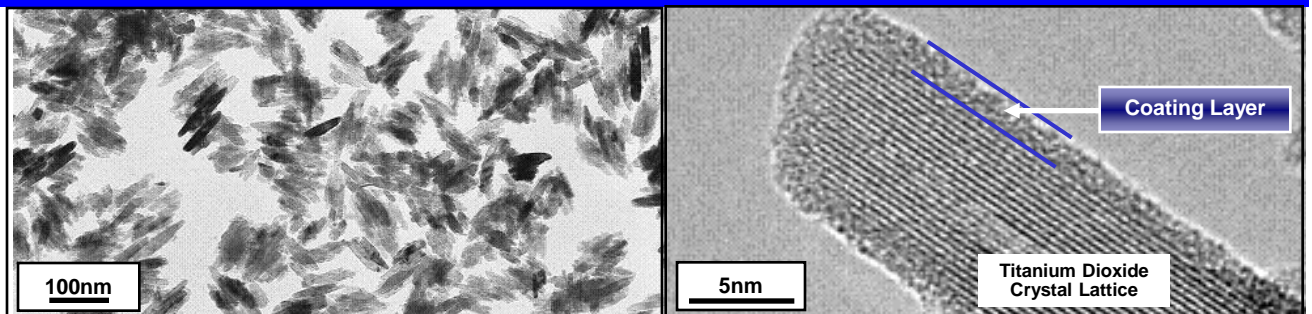
# Ultrafine rutile titanium dioxide *STR series*

- Excellent dispersibility and transparency due to its strictly controlled ultrafine particle and highly sophisticated surface-treatment technology
- Superior shielding efficacy of UV-B rays
- Excellent durability and minimized photo activity

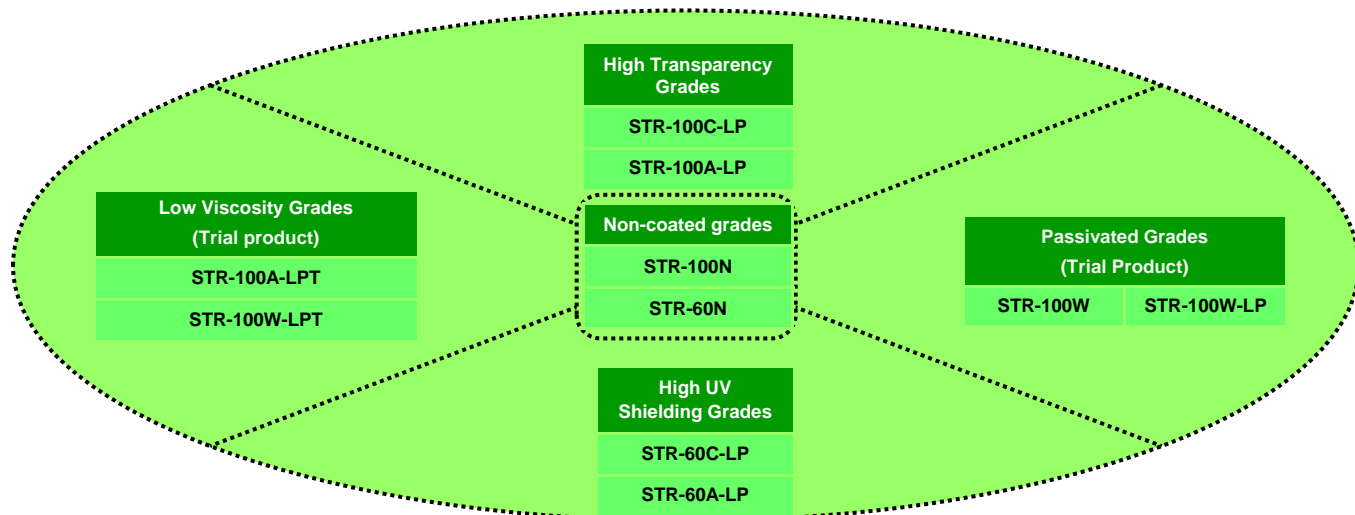
	STR-60C-LP	STR-60A-LP	STR-100C-LP	STR-100A-LP
Appearance	White powder	White powder	White powder	White powder
Core particle size	30 × 90nm	30 × 90nm	20 × 100nm	20 × 100nm
TiO <sub>2</sub> content	84%	78%	84%	78%
Surface treatment	Aluminum Hydroxide Hydrogen Dimethicone	Aluminum Hydroxide Hydrated Silica Hydrogen Dimethicone	Aluminum Hydroxide Hydrogen Dimethicone	Aluminum Hydroxide Hydrated Silica Hydrogen Dimethicone
UV shielding efficacy	◎	◎	○	○
Transparency	○	○	◎	◎
Supression degree of photo catalysis	○	◎	○	◎

## ■ Transmission electron micrograph photographs

STR-100A-LP



## Products Lineup of STR Series



## Properties

		Mean particle size* (nm)	Composition(%)				Feature
			Titanium dioxide	Aluminum hydroxide	Hydrated silica	Hydrogen dimethicone	
Non-coated grades	STR-100N	20×100	100	Non-coated	Non-coated	Non-coated	High transparency grade STR-100N,
	STR-60N	30×90	100	Non-coated	Non-coated	Non-coated	High UV shielding grade STR-60N
High transparency Grades	STR-100C-LP	20×100	89	7	Non-coated	4	High transparency TiO <sub>2</sub> due to optimum particle size and surface coating Al Hydroxide treated type C Silica and Al Hydroxide treated type A
	STR-100A-LP	20×100	84	4	8	4	
High UV shielding Grades	STR-60C-LP	30×90	89	7	Non-coated	4	High UV shielding Al Hydroxide treated type C Silica and Al Hydroxide treated type A
	STR-60A-LP	30×90	84	4	8	4	
Passivated Grades (Trial products)	STR-100W	20×100	80	Non-coated	20	Non-coated	Excellent inactivity achieved due to coating with high density silica STR-100W: Hydrophilic STR-100W-LP: Hydrophobic
	STR-100W-LP	20×100	77	Non-coated	19	4	
Low viscosity Grades (Trial products)	STR-100A-LPT	20×100	84	4	8	4	Due to unique surface treatment, low viscosity TiO <sub>2</sub> properties retained even in highly concentrated dispersions. Silica and Al Hydroxide treated type A Silica treated type W
	STR-100W-LPT	20×100	77	Non-coated	19	4	

