



Recommended Uses

- Optical Material (High refractive index • Hard coat) , Electronic Material

Characteristics

- Highly Nanocrystalline ZrO₂ Particles
- Highly Transparent ZrO₂ Dispersions (30 wt% on weight of solid)

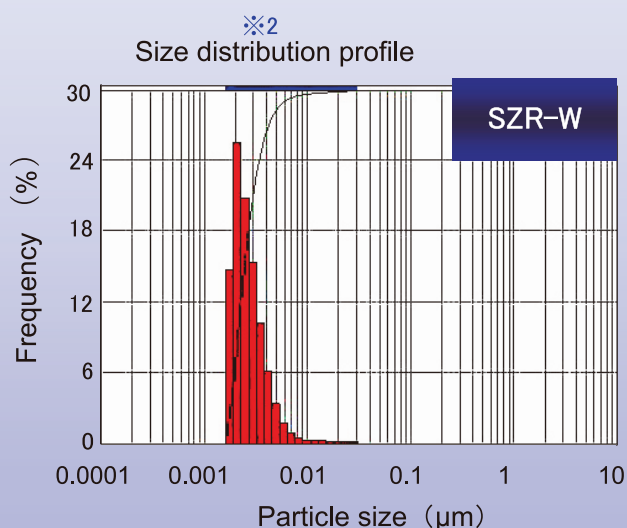
Analysis Data^{※1}

Grade	SZR	-W	-M	-CW	-CM
		Acid type		Alkali type	
Concentration		30 wt% as ZrO ₂			
Solvent Composition		Water	Methanol	Water	Methanol
pH		4	—	10	—
Viscosity (mPa·s at 25°C)		6	2	5	2
Size distribution profile ^{※2}	D50(nm)	3	3	6	8
	Dmax(nm)	30	43	36	36

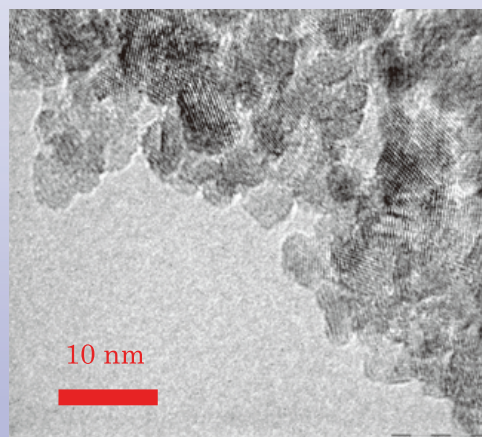
Mean Particle Size 3~5 nm
 Specific Surface Area 200 m²/g
 Crystallite Size ca. 3~5 nm

Refractive index **2.11**

※ Calculated by Coating film



Transmission Electron Micrograph



Sol of Transparency Form



※1 Data on this page can not be used for specification purposes.

※2 Size distribution profile of particle in solvent.(Measured by Dynamic light scattering)