

Dispersant for nanoparticles

ESLEAM™ C series

2021.3 (Ver.5)



1. Feature

- **Good dispersibility especially for particles with <100 nm.** It prevents particulates from flocculation and reduces the viscosity of dispersion liquid.
- **High content of active constituent (100%)** and low content of impurities (alkaline metal and halogen free).
- **Good solubility** for various solvents.
- **Easy to decompose clean** (residue: less than 1% at 400°C under N₂ atmosphere).

2. Typical properties, solubility and regulatory information

		C-2091I	C-2093I	C-2095I
Properties	Appearance (at 25°C)	Pale yellow or yellow liquid	Pale yellow or yellow liquid	Pale yellow or yellow liquid
	Viscosity (mm ² /s, at 25°C)	1, 600	2, 000	2, 500
	Acid-base	acidity	acidity	acidity
Solubility* ⁻¹	Water	×	×	×
	Ethanol	○	○	○
	Methyl ethyl ketone (MEK)	○	○	○
	2- (2-Butoxyethoxy) ethyl acetate	○	○	○
	Terpineol	○	○	○
	Dihydroterpinyl acetate	○	○	○
	Toluene	○	○	○
Polar character		High	Benchmark	Low
Regulatory Information* ²	ENCS (Japan)	○	○	○
	TSCA (USA)	×	×	×
	IECSC (China)	○* ³	○* ³	○* ³
	ECL (Korea)	○* ³	○* ³	○* ³
	ECN (Taiwan)	○	○	○

Representative values, not values of standard.

*1 ○:transparent, ×:phase separation (5wt%, at 25°C)

*2 ○:On list, ×:Not on list ; Please ask us regarding the registration status of REACH for each product

*3 Simple registration

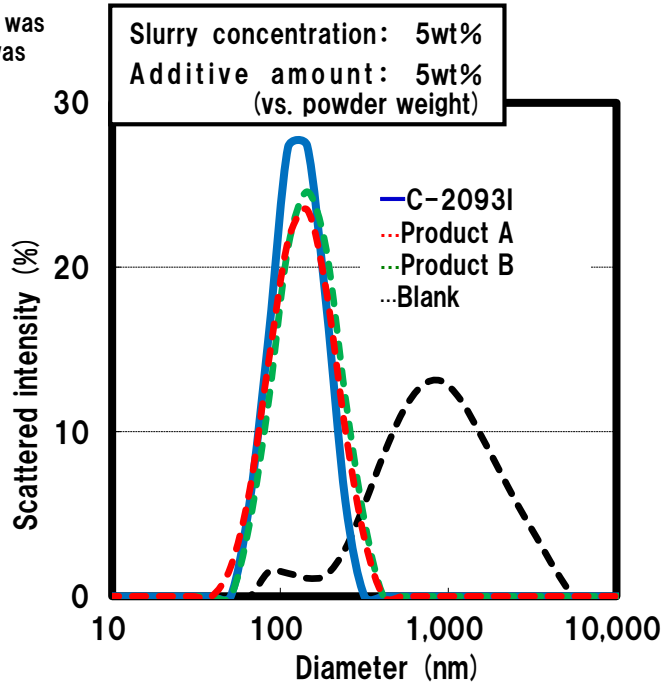
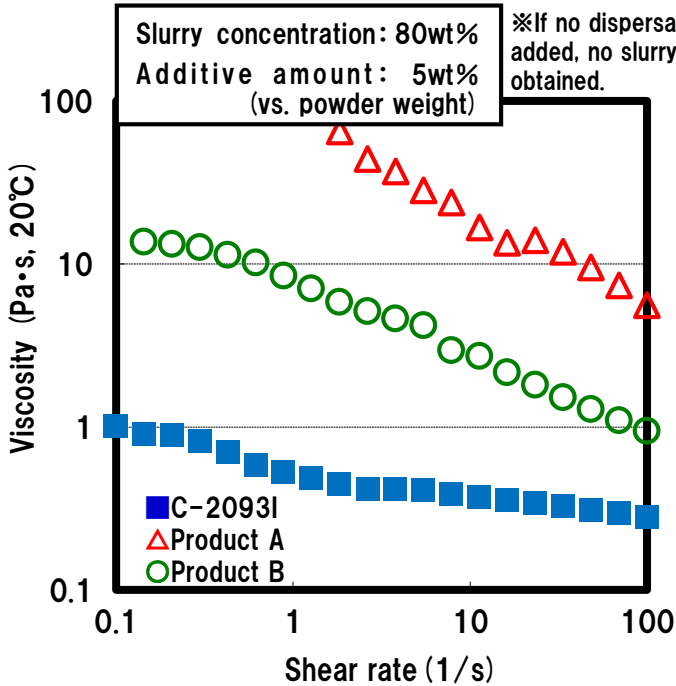
3. Additive amount (suggested)

The additive amount of ESLEAM™ C series is normally from 0.5 to 10wt% (for powder weight). As the optimal additive amount strongly depends on particle size or surface area of powder, we recommend some test using different amount of the product to determine the optimal additive amount.

4. Result of dispersing test

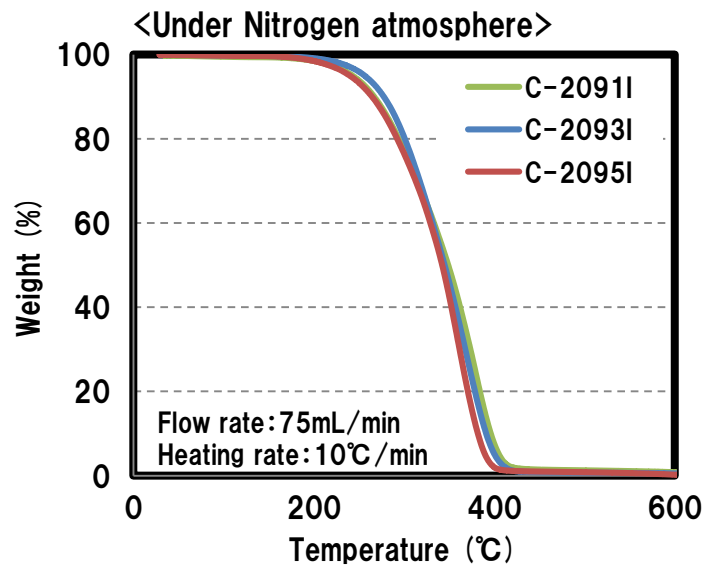
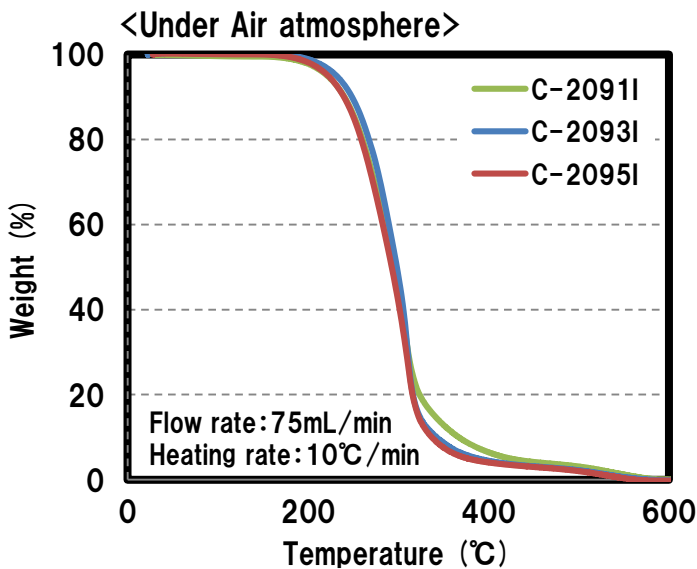
Powder : BaTiO₃ (Average particle size : 50 nm, Surface area : 21.4 m²/g)

Solvent : Toluene / Ethanol = 1/1 (wt./wt.)



(Product A: Polyether acid and amine mixture, Product B: Phosphate type)

5. Thermogravimetric analysis



6. Other information

This catalogue is made by NOF CORPORATION based on our best knowledge and all of listed data are reference only. (not guaranteed) We recommend to refer our SDS before using our products and special attention should be paid in handling because all chemicals have unknown hazard.

Please contact us when you have any other question.

Head Office

Yebisu Garden Place Tower, 20-3 Ebisu 4-chome, Shibuya-ku, Tokyo 150-6019
TEL.+81-3-5424-6704 FAX.+81-3-5424-6810 <http://www.nof.co.jp/>