

Aqueous dispersant for nanoparticles

MALIALIM[®] FA series

1 Feature

- **Good dispersibility especially for particles with <50 nm.** It prevents particulates from flocculation and reduces the viscosity of dispersion liquid.
- Low content of impurities (alkaline metal and halogen free).
- Easy to decompose clean.

2 Typical properties, solubility and regulatory information

		FA-1160-08	FA-1150A-08	FA-1150AM-08
Properties* ¹	Appearance (at 25°C)	Yellow~blown liquid		
	Acid-base	acidity	neutrality	neutrality
	Viscosity (mm ² /s, at 25°C)	130	50	50
	Solid content (%)	60	50	50
Regulatory Information* ²	ENCS (Japan)	○	○	○
	TSCA (USA)	×	×	×
	IECSC (China)	×	×	×
	ECL (Korea)	○	×	×
	ECN (Taiwan)	○	×	×

*1 Representative values, not values of standard.

*2 ○:On list, ×:Not on list

3 Additive amount (suggested)

The additive amount of MALIALIM[®] FA 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.

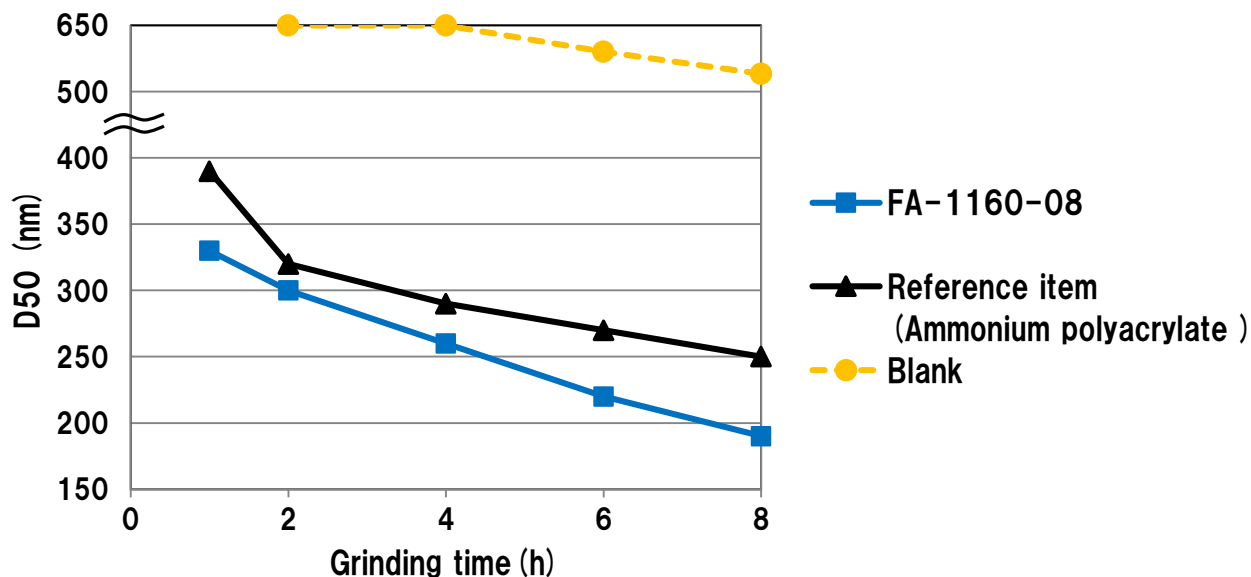
4 Cautions on handling

For more detail, Safety Data Sheet (SDS) is available.

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Result of dispersing test

Powder : TiO_2 (Particle size: ca. 50nm)
 Solvent : Ion-exchanged water
 Slurry concentration : 30wt%
 Additive amount : 5wt% (Solid content, vs. powder weight)
 Beads : 1mm Zirconia beads (300wt% vs. powder weight)

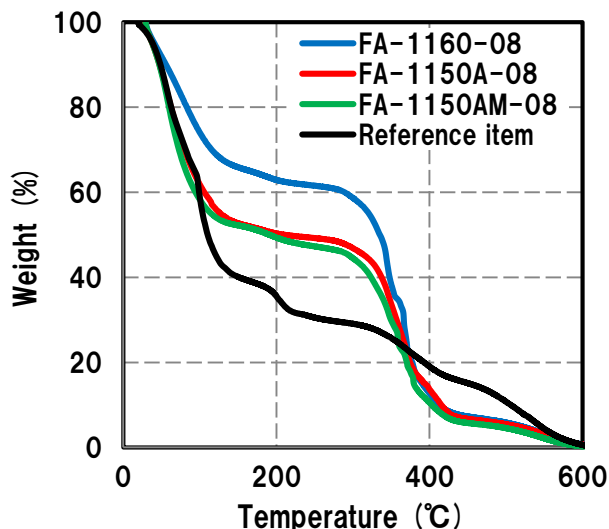


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Thermogravimetric analysis

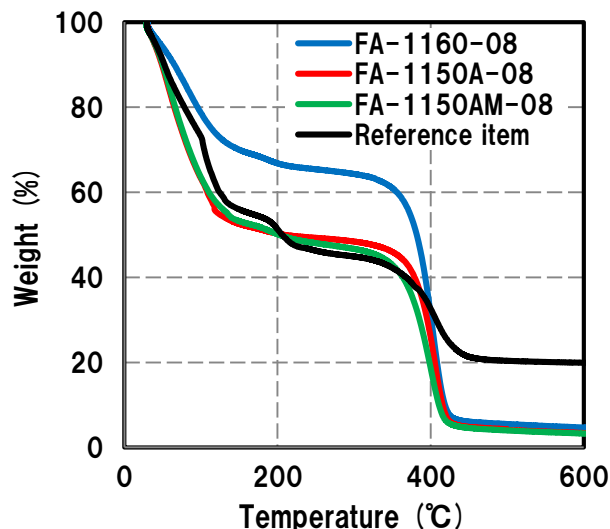
<Under Air atmosphere>

Flow rate: 75mL/min
 Heating rate: 10°C/min



<Under Nitrogen atmosphere>

Flow rate: 75mL/min
 Heating rate: 10°C/min



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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.

* MALIALIM is a trademark of NOF CORPORATION.

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