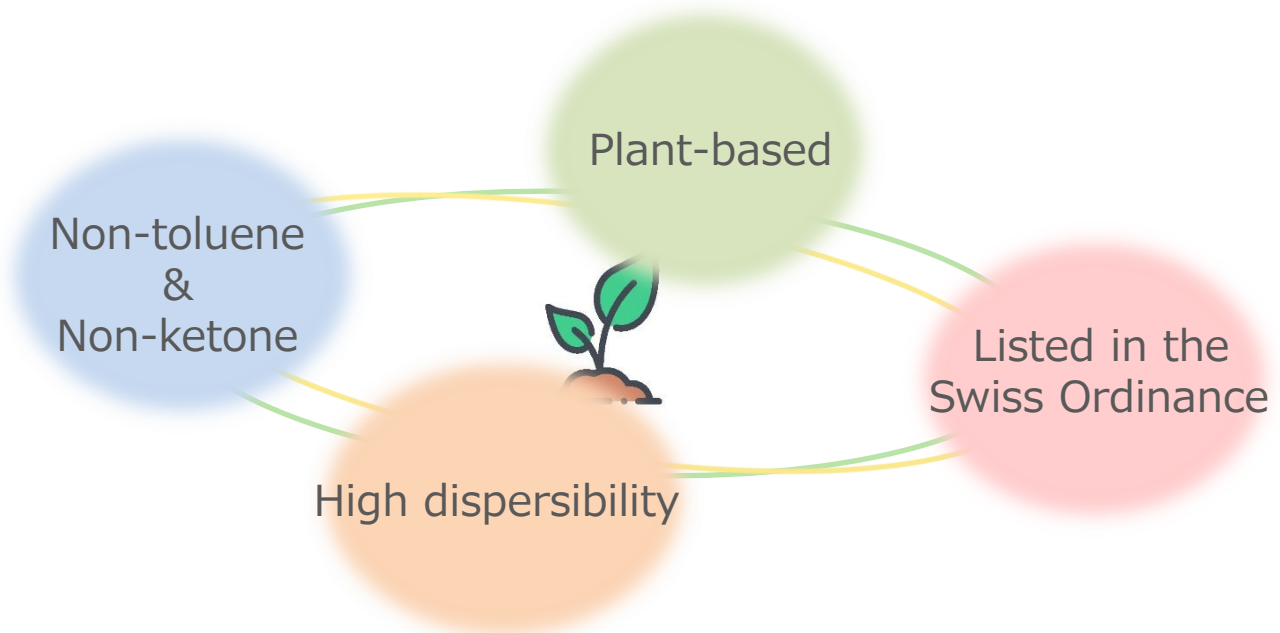


# HOMOGENOL L-28E

"HOMOGENOL L-28E" is a toluene and ketone free, environmentally friendly dispersant.



## ☑ Main applications and Features

### Gravure inks

- Antistatic effect during printing
- High dispersibility
- Reduce excess ink to a plate cylinder

### paints

- Improvement of coating film gloss
- High dispersibility
- Prevent color separation

※ It can also be used as a dispersant in oil for other products.

## ☑ Properties of HOMOGENOL L-28E

composition	Special polymer type surfactant
raw materials	Palm oil / Coconut oil
appearance	Liquid
Actual Matter	30%
Diluted solvent	ethyl acetate / isopropyl alcohol



# ☑ Features of HOMOGENOL L-28E

## I. Dispersibility

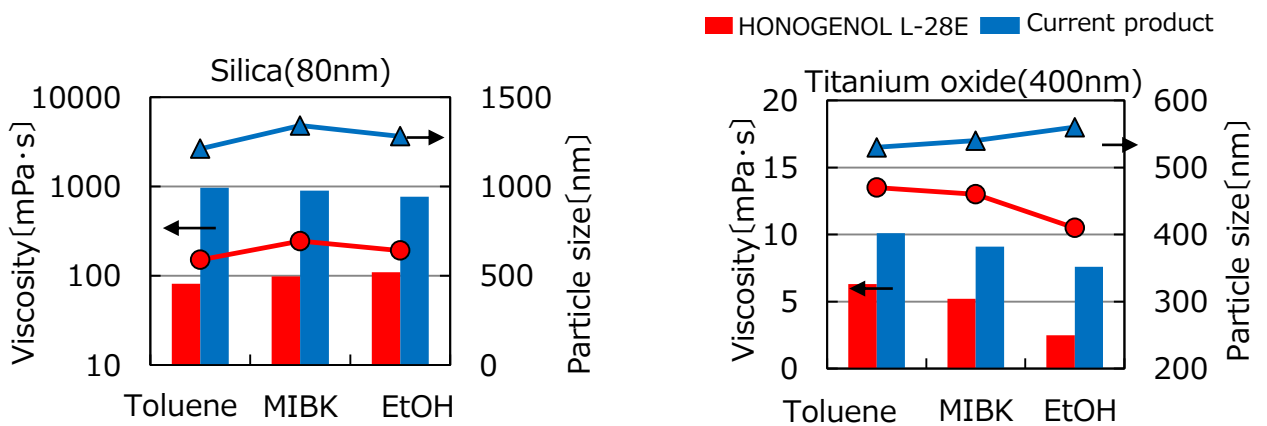


Fig 1. Particle size and viscosity of the dispersion dispersed with HOMOGENOL L-28E

※ Measurement conditions: Slurry concentration 10%, 5% dispersant added to the dispersion  
Add 1 mm diameter zirconia beads and treat with a paint shaker for 3 hours.

"Homogenol L-28E" can achieve both **high dispersibility** and **low viscosity** for each dispersion.

## II. Redispersibility and long term stability

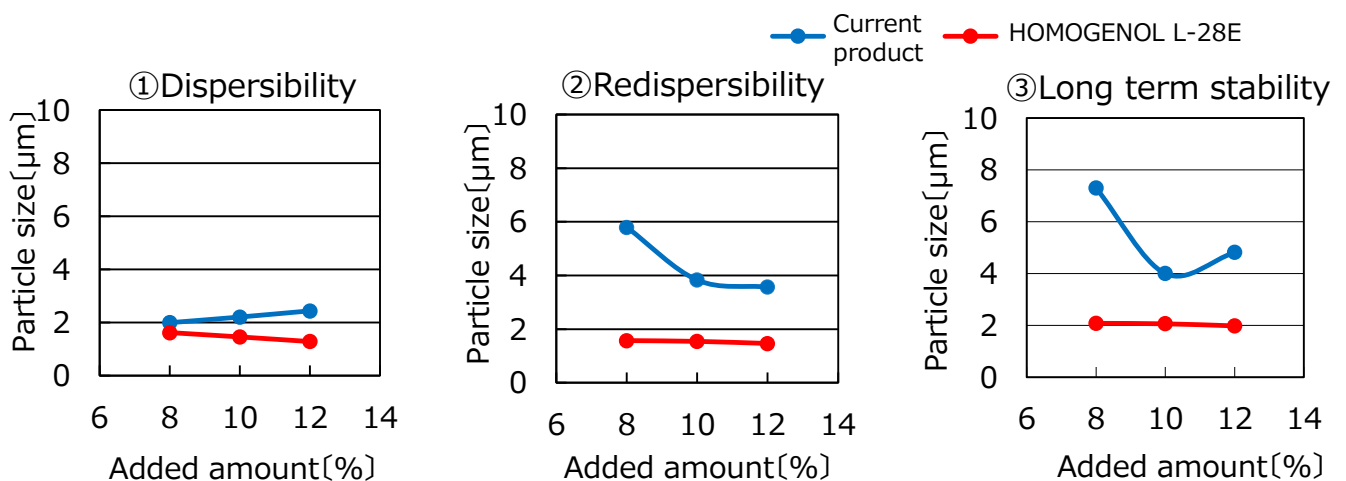


Fig 2. Particle size of carbon black dispersed with HOMOGENOL L-28E

※ Measured conditions

① Dispersed for 3h with ultrasonic waves.

② After drying, it was diluted again with a dispersion medium.

③ ② was stored under 50 °C condition for 7 days.

"Homogenol L-28E" has **excellent redispersibility** and **dispersion stability**, so stable printing can be achieved.

# ☑ Appeal point as a dispersant for gravure ink

## I. Solvent / dispersion correspondence table

dispersion Solvent	TiO <sub>2</sub>	SiO <sub>2</sub>	Carbon black	Red	Blue	yellow	Magenta
Xylene	×	×	×	◎	△	◎	×
Ethyl acetate/IPA	◎	◎	◎	○	×	○	×
MIBK	○	○	○	◎	×	◎	◎
Acetone	◎	◎	◎	○	◎	×	◎
Butanol	◎	◎	◎	△	×	×	△
Ethanol	◎	◎	◎	◎	◎	×	×
Methanol	○	○	○	◎	◎	×	×

Table 1. Dispersibility of Homogenol L-28E

※\*Dispersion stability: ◎ Very good, ○ Good, × Bad

"HOMOGENOL L-28E" shows **excellent dispersion stability** for various dispersion media and dispersoids.

## II. Reduction of stains on the printing plate

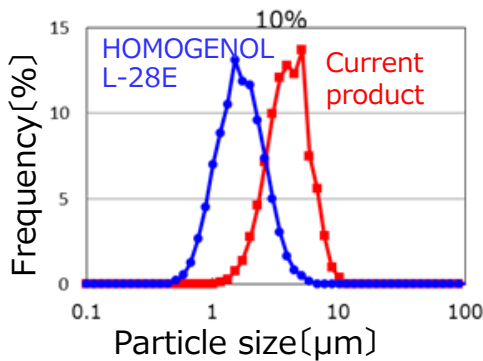


Fig3. Slurry redispersibility

※ Slurry is "pigment + dispersant"

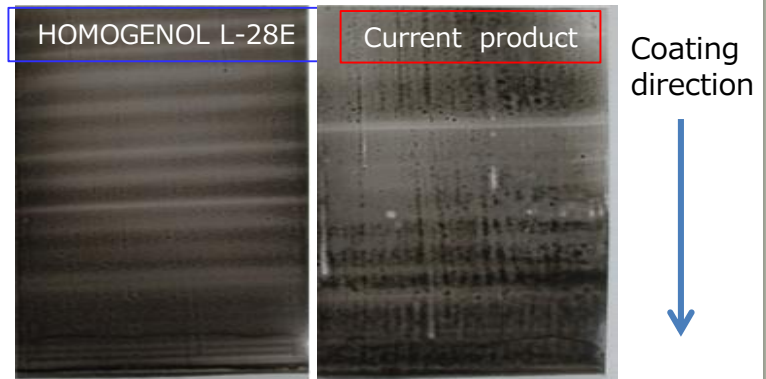


Fig 4. Ink coating after drying

※ This ink is "pigment + urethane resin + dispersant"

By using "Homogenol L-28E", peculiar streaks in gravure printing do not occur, so **stable printing is possible**.