TECHNICAL DATA SHEET

Solsperse™ 87000

100% Active Polymeric Dispersant

Lubrizol

PERFORMANCE COATINGS

PRODUCT DESCRIPTION

Solsperse™ 87000 is a 100% active polymeric dispersant, which will improve dispersion and stability in solvent-free and radiation-cure inks and coatings. It is also suitable for organic and inorganic pigment dispersion across a wide range of medium-polarity solvents. Solsperse 87000 is particularly effective on rubine toner pigments such as Pigment Red 57:1.

FEATURES/BENEFITS

- Improved pigment wetting and dispersion
- Higher pigment loadings
- Excellent viscosity reduction and particle size stability
- Superior gloss / reduced haze
- Improved flow
- Improved rheology and rheology stability

PHYSICAL CHARACTERISTICS*

Appearance	Pale yellow to dark amber viscous liquid
Density, g/cm^3 @ 25 (ºC)	1.02 (20 °C)
Flash Point	282 °C (Pensky-Marten Closed Cup)
Gardner Colour	10 Max
Pour Point	-10 °C
Boiling Point	>250 °C

* Property values represent typical results only and are not to be considered specifications.

TYPICAL APPLICATIONS

- UV Flexographic, UV Offset, UV Screen and UV digital inks
- Various UV Coating Applications, including wood
- Pigment dispersions in medium polarity solvents such as acetates and glycol ethers
- Pigment dispersions for high-solids and low- or zero-VOC systems

Solsperse 87000 should be dissolved in the millbase monomer/oligomer blend of milling solvent before the addition of pigments. Addition levels should be based on the surface area of the pigment/filler. The dosage level is typically 2.0 mg active dispersant per square meter of pigment surface area. This is simply the surface area divided by 5. A ladder series based around this theoretical dose is recommended to optimize performance.

For digital inks, the dosage level required could be considerably higher and dosages of 4-10 mg active dispersant on the weight of pigment should be considered. For 6 mg dosage, the surface area divided by 1.66 = % active dispersant on weight of pigment.

SHELF LIFE/STORAGE

Solsperse 87000 is packed in 20 kg pails and 190 kg drums. Recommended retest date is every two years. Refer to SDS for other storage information.

REGULATORY STATUS

Please see the product's current safety data sheet, SDS, for regulatory information. You can request an SDS at www.lubrizol.com/coatings.