Technical Data Sheet

Pluriol® E400 LS-FLEX

November 2019

Pluriol® E 400 LS-FLEX is a polyethylene glycol that is 100% active. It is a clear, odorless, almost colorless, viscous liquid. Pluriol® E 400 LS-FLEX is heat stable and hygroscopic and has a low vapor pressure. It is soluble in water, acetone, ethanol, ethyl acetate and toluene.

Applications:

Chemical Intermediates: The two primary hydroxyl groups of the polyethylene glycols may undergo typical alcohol reactions to form monoesters, diesters, ethers, acetals and amines.

Resins*:* In the production of alkyd resins, the substitution of polyethylene glycol for some of the glycerine produces resins of greater flexibility. Polyethylene glycol fatty esters are useful plasticizers for vinyl resins and other materials.

Rubber*:* Polyethylene glycols are used as lubricants for the air bags in pneumatic tires. Use to date has indicated no adverse effect on rubber.

Cellulosic Materials**:** The polyethylene glycols are suitable as paper softeners because of their humectant properties and low vapor pressure. They are also used as plasticizers in the manufacture of uncoated cellophane and cellulose sponges.

Textiles and Leather: Polyethylene glycols and their fatty acid derivatives are used for such varied purposes as emulsification, washing, lubrication, static prevention, pigment dispersion and softening.

Printing**:** Polyethylene glycols are used in the production of steam set printing inks. When used in combination with ethylene and diethylene glycols, they control the amount of moisture pickup in the setting of inks.

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Specifications	
Color, APHA.	25 max.
Water, weight %	0.2 max.
pH (5% aqueous solution)	4.5 – 7.5
Solubility, (25% solution)	Clear
1,4 dioxane, ppm	Not more than 1

Typical physical properties	
Form	Liquid
Average molecular weight.	400
Specific gravity, 25°/25°C	1.124
Viscosity, CS at 99°C.	7.4
Pour point.	5°C
Cloud point, 1% aqueous.	>100°C
Surface tension (0.1% aqueous)	67 dynes/cm at 25°C
Flash point (C.O.C).	238°C
Solubility in water	>10%

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