

Technical Data Sheet

PEG 600
Polyethylene Glycol 600

Poly ethylene glycols (PEGs) are family of water soluble linear polymers formed by the additional reaction of ethylene oxide (EO) with monoethylene glycol (MEG) or diethylene glycol (DEG). The generalized formula for polyethylene glycol is: $H(OCH_2CH_2)_nOH$, n: Average number of repeating ethylene oxide groups.

Application:

PEG600 is used in the pharmaceutical industry (e.g. in ointment, liquids and tableting) and the cosmetic industry (e.g. creams, lotions, pastes, cosmetic sticks, and soaps) and also used in the textile industry (e.g. cleaning and dyeing aids), in the rubber industry(e.g. lubricants and mold parting agents), and in ceramics (e.g. bonding agents and plasticizers).

TEST	Standard Test Method	Standard
Appearance at 25 °C	---	Clear Liquid
Color at 50 °C , APHA	ASTM D-1209	Max 10
Average molecular weight, g/mol	Calculated	570-630
PH (5% in water)	ASTM D-1172	4.5-7.5
Density at 40 °C , g/ml	ASTM D-1298	1.125±0.02
Hydroxyl value, mg KOH/G	ASTM D-4252	178-196
Water, Percent	ASTM D-203	Max 2
Viscosity at 25 °C, CP	ASTM D-445	136±10