Unilong Industry Co., Ltd

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TECHNICAL DATA SHEET

Product	Polyethylene Glycol
Chemical Name	PEG
CAS	25322-68-3
Density	1.27 g/mL at 25 °C
EINECS Number	500-038-2
Melting point	64-66 °C
Boiling point	>250°C

SPECIFICATION :

Item	Appearance(25℃)	Color Pt-Co	Hydroxyl value mgKOH/g	MW	Freezing point ℃	Water(%)	pH
PEG-200	colorless transparent liquid	≤20	510~623	180~220	—	≤1.0	5.0～7.0
PEG-300	colorless transparent liquid	≤20	340~416	270~330	—	≤1.0	5.0～7.0
PEG-400	colorless transparent liquid	≤20	255~312	360~440	4～10	≤1.0	5.0～7.0
PEG-600	colorless transparent liquid	≤20	170~208	540~660	20～25	≤1.0	5.0～7.0
PEG-800	Milky white paste	≤20	127~156	720~880	26～32	≤1.0	5.0～7.0
PEG-1000	Milky white paste	≤20	102~125	900~1100	38～41	≤1.0	5.0～7.0
PEG-1500	Milky white solid	≤20	68~83	1350~1650	43～46	≤1.0	5.0～7.0
PEG-2000	Milky white solid	≤20	51~63	1800~2200	48～50	≤1.0	5.0～7.0
PEG-3000	Milky white solid	≤20	34~42	2700~3300	51～53	≤1.0	5.0～7.0
PEG-4000	Milky white solid	≤20	26~32	3600~4400	53～54	≤1.0	5.0～7.0
PEG-6000	Milky white solid	≤20	17.5~20	5500~7000	54～60	≤1.0	5.0～7.0
PEG-8000	Milky white solid	≤20	12~16	7200~8800	55～63	≤1.0	5.0～7.0

Packaging :

Packaging, storage and transportation: PEG200, 400, 600, 800, 1000, 1500, 2000 and 3000 are packed in 200kg iron drums or 50kg plastic drums; PEG-4000, 6000 and 8000 are packed in 20Kg woven bags after being sliced. This series of products is non-toxic and non-flammable and should be stored and transported as general chemicals. Store in a dry and ventilated place. Shelf life two years

Application:

1. Polyethylene glycol with a relatively low molecular weight can be used as a solvent, co-solvent, o/w emulsifier and stabilizer for making cement suspensions, emulsions, injections, etc., and also used as water-soluble ointment base and suppositories. Matrix, solid waxy polyethylene glycol with high relative molecular weight is often used to increase the viscosity and solidification of low molecular weight liquid PEG, as well as to compensate for other external factors; for products that are not easily soluble in water, this product

can be used as a carrier for solid dispersants. To achieve the purpose of solid dispersion, PEG4000 and PEG6000 are good coating materials, hydrophilic polishing materials, membrane materials and capsule materials, plasticizers, lubricants and dropping pill matrix, etc.

2. Polyethylene glycol PEG4000 and PEG6000 are used as coating agents in the paper industry to increase the gloss and smoothness of paper; in the rubber industry as additives to increase the lubricity and plasticity of rubber products and reduce power consumption during processing. Extend the service life of rubber products.

3. Polyethylene glycol series products can be used as raw materials for ester surfactants.

4. Polyethylene glycol PEG-200 can be used as a medium for organic synthesis and a heat carrier with higher requirements. It is used as a humectant, inorganic salt solubilizer, and viscosity regulator in the daily chemical industry; it is also used as a viscosity regulator in the textile industry. Softener, antistatic agent; used as wetting agent in paper and pesticide industries.

5. Polyethylene glycol PEG-400, PEG-600, and PEG-800 are used as the base of cosmetics, lubricants and wetting agents in the rubber industry and textile industry. Polyethylene glycol PEG-600 is added to the electrolyte in the metal industry to enhance the grinding effect and enhance the luster of the metal surface.

6. Polyethylene glycol PEG-1000 and PEG-1500 are used as matrix or lubricant and softener in the textile and cosmetics industries; they are used as dispersants in the coating industry to improve the water dispersion and flexibility of the resin. The dosage is 10~30%; it can improve the solubility of dyes and reduce their volatility in inks. It is especially suitable for wax paper and ink pad inks. It can also be used to adjust the ink viscosity in ballpoint pen inks; it can be used as a dispersant in the rubber industry. Promotes vulcanization and is used as a dispersant for carbon black fillers.

7. Polyethylene glycol PEG-2000 and PEG-3000 are used as metal processing molding agents, lubricants and cutting fluids for metal drawing, stamping or forming, grinding, cooling, lubricating and polishing agents, welding agents, etc.; used as lubrication in the paper industry Agents, etc., are also used as hot melt adhesives to increase rapid rewetting capabilities.

8. Polyethylene glycol PEG-4000 and PEG-6000 are used as substrates in the cosmetics industry to adjust viscosity and melting point; they are used as lubricants and coolants in the rubber and metal processing industries, and in the pesticide and pigment industries. Used as dispersant and emulsifier in production; used as antistatic agent, lubricant, etc. in textile industry.

9. Polyethylene glycol PEG8000 is used as a matrix in the production of cosmetics industry to adjust viscosity and melting point; it is used as a lubricant and coolant in the rubber and metal processing industries, and it is used as a dispersant in the industrial production of pesticides and pigments. , emulsifier; used as antistatic agent, lubricant, etc. in the textile industry.

Shelf Life:

2 years in original packaging containers.