

EVOXs™ PEG4000

Chemical Name: Polyethylene Glycol
 CAS Number: 25322-68-3
 Formula: $\text{H}(\text{OCH}_2\text{CH}_2)_n\text{OH}$

Product Description

EVOXs™ PEG4000 is referred to linear polymers of ethylene oxide, named polyethylene glycols (abbreviated as PEG). **EVOXs™ PEG Series** are low toxic, water-soluble liquids or waxy solids depending on EO mole adduct or average molecular weight. PEG can be formulated in various industrial applications to enhance solvating and lubricating capability, to increase water based solution viscosity, or to act as mold-releasing and antistatic agents. **EVOXs™ PEG Series** can also be used as chemical reaction intermediates in specific applications.

Sales Specification

Property	Unit	Value	Method
Physical Form	--	Flake	Visual @30°C
Hydroxyl Value	mg KOH/g	27.4 – 34.0	Titration
Color	APHA	≤40	Pt-Co in 25 wt% aq. @30°C
Moisture	wt%	≤0.5	Karl Fischer
pH	--	4.5 – 7.0	5 wt% aq.
Molecular Weight	--	3300 – 4100	Calculated from OHV
Viscosity	cSt	110 – 158	@100°C

Typical Properties

Property	Unit	Value	Method
Specific Gravity	--	ca. 1.060	@100°C
Free EO	ppm	≤1	--
1,4-Dioxane	ppm	≤10	--

Main Application

- Plasticizers in coatings and adhesives
- Lubricants, softening agents, and antistatic agents in textile, leather, and paper industries
- Water based fluid thickener
- Mold releasing agents
- Chemical intermediate and esters

Standard Packing

25kg per PE Kraft paper woven bag

Shelf Life

OUCC will endorse the results on the certificate of analysis (COA) for a period of up 2 year from the date of manufacture for material in original, unopened, properly stored containers. Beyond 2 year from this COA issuing date, we recommend the material should be reexamined to ensure that it is still suitable for use

Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Avoid direct exposure to sunlight.

Reminders

EVOXs™ PEG Series are not suitable for urethane reactions.

WARNING

The information contained in this document is given in good faith and based on our current knowledge. It is only an indication and is in no way binding, notably as regards infringement of or prejudice to third parties through the use of our products. OUCC GUARANTEES THAT ITS PRODUCTS COMPLY WITH ITS SALES SPECIFICATIONS.

This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for a given use. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorisations. Users are requested to check that they are in possession of the latest version of the present document and OUCC is at their disposal to supply any additional information.

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