



**POLYETHYLENE GLYCOLS (PEGs)**  
**MULTIFUNCTIONAL POLYMERS FOR PHARMA, PERSONAL CARE, FOOD & FLAVOUR APPLICATIONS**

**Manufactured by: Sidhe Petrochemicals, Gujarat**

**GMP & GLP Certified | FDA-Approved Facility | Halal & Kosher Certified Facility**

Sidhe Petrochemicals introduces its **high-purity Polyethylene Glycols (PEGs)** – versatile, water-soluble polymers with broad application across **pharmaceutical, cosmetic, personal care, and industrial formulations**. Manufactured in our state-of-the-art **FDA-approved, GMP- and GLP-compliant facility**, our PEG range ensures **unmatched quality, consistency, and safety**.

**APPLICATIONS OF POLYETHYLENE GLYCOLS**

PEGs are non-toxic, inert compounds widely used as solvents, lubricants, carriers, dispersants, and humectants across a diverse spectrum of industries:

**✚ Pharmaceutical Industry:**

Used as excipients, ointment bases, tablet binders, and in liquid oral formulations due to their excellent solubility and low toxicity.

**✚ Personal Care & Cosmetics:**

Serve as humectants, skin conditioning agents, and emulsion stabilizers in lotions, creams, toothpaste, and shampoos.

**✚ Food Industry (where permitted):**

Used as carriers and solubilizers in food-grade applications.

**PRODUCT SPECIFICATIONS**

<b>Parameter</b>	<b>PEG 400</b>	<b>PEG 3350</b>	<b>PEG 4000</b>	<b>PEG 6000</b>
Physical Appearance	Clear, viscous liquid	White, Wax like free-flowing flakes	White, Wax like free-flowing flakes	White, Wax like free-flowing flakes
Molecular Weight (g/mol)	380–420	3000–3700	3100–4000	5700–6500
Hydroxyl Value (mg KOH/g)	264 – 300	30 – 38	30 – 36	16 - 22
Water Content (%)	≤ 0.5%	≤ 1.0%	≤ 1.0%	≤ 1.0%

pH (5% aq. solution)	4.5 – 7.5	4.6 – 7.4	4.5 – 7.5	4.5 – 7.5
Heavy Metals (as Pb, ppm)	≤ 5 ppm	≤ 5 ppm	≤ 5 ppm	≤ 5 ppm
Residue on Ignition (%)	≤ 0.1%	≤ 0.1%	≤ 0.1%	≤ 0.1%
MEG & DEG (% wt)	≤0.25	≤0.25	≤0.25	≤0.25
1,4- Dioxane	≤10	≤10	≤10	≤10

## REGULATORY COMPLIANCE & SAFETY STANDARDS

- ✚ **Manufactured under strict GMP & GLP protocols.**
- ✚ **Compliant with pharmacopeial standards** such as USP, IP, and EP depending on the grade.
- ✚ **Halal and Kosher certified.**
- ✚ **FDA-inspected facility**, ensuring safety for pharma and cosmetic applications.

## STORAGE & PACKAGING

- ✚ **PEG 400** is packed in epoxy-coated steel drums or HDPE containers.
- ✚ **PEG 3350 / 4000 / 6000** are packed in food-grade polyethylene-lined kraft bags or fiber drums.
- ✚ **Shelf Life:** Minimum 2 years from date of manufacture when stored in a **cool, dry place**, protected from direct sunlight and moisture. **Recommended to re-test after 24 months** for quality assurance.

## WHY CHOOSE SIDHE PETROCHEMICALS?

- ✓ GMP & GLP Certified Facility
- ✓ Consistent Quality and Purity across PEG Grades
- ✓ Regulatory-Compliant Pharma & Cosmetic Ingredients
- ✓ Robust Supply Chain & Timely Deliveries
- ✓ Halal & Kosher Certified
- ✓ FDA-Compliant Manufacturing Standards

**For inquiries, technical specifications and samples, please contact:**

**Mobile: +91-9220307091 (Rushabh Shah)**

**E-mail: [rushabhshah@sidhepetrochemical.com](mailto:rushabhshah@sidhepetrochemical.com)**

