

iTHICK 6000

INCI Name (US): PEG-150 Distearate

INCI Name (EU): PEG-150 Distearate

CAS #: 9005-08-7

**General Information/
Characteristics:**

Polyethylene Glycol (PEG) Distearates are produced from stearic acid, a naturally occurring fatty acid, which occurs in animal fats and oils. PEG Distearates are manufactured by reacting stearic acid with a specific number of units of ethylene oxide which corresponds to the average PEG chain length desired.

Benefits / Application:

iThick 6000 is a high molecular weight distearate of polyethyleneglycol that provides excellent properties of thickening to formulations based on surfactants agents. iThick 6000 is a differentiated thickener with excellent suavity. It can be used in many cosmetic formulations, such as shampoos for adults, for children, foam bath, liquid soaps, etc.

iThick 6000 is a versatile product that can be used as the unique thickening agent or even associated to alkanolamides, etoxilated fatty alcohols, and betaines. Due to the ethylene oxide groups in its molecule, iThick 6000 acts improving the viscosity of surfactants usually used in soft formulations. Therefore, surfactants such as sorbitan monolaurate, sulfosuccinates, and betaines have its thickener profile improved.

When associated to etoxilated fatty alcohols iThick 6000 shows a special synergy that allows that alkanol amides be partially or totally substituted. iThick 6000 should be added under agitation to the water of formulation – total or part of the water – at 70-80°C. In cold processing, iThick 6000 must be previously dissolved before incorporate it to the formulation. It is better elaborate an aqueous solution at 10% and heat this solution until 70-80°C or iThick 6000 can be solubilized in the amide associated to an amphoteric, heating to 65-75°C. After this step, the cold processing can continue.

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Formulations Advices: Using iThick 6000 as the only thickening agent in the formulation, it is suggested to use 1 - 2%. Associating to other viscosity donors, it can be used in low concentrations, and it will be determinate to each formulation.

Regulatory Status: No applicable

Physical-Chemical Properties:	Appearance	Flakes/Solid
	Color:	White to slight yellowish
	Acid value	0 – 9 mg KOH/g
	Iodine value	0 – 1 g I ₂ /100 g
	Saponification value	14 – 25 mg KOH/g

**These values indicate typical specification; they are not intended to be used as product specifications*

Additives: Preservatives: No applicable

Shelf life and Storage: Shelf life: Thirty-six (36) months from the manufacturing date.

iThick 6000 should be stored in a covered and dry area, protected from light, and in the original and closed packing.

Packaging: 20 kg/ drum

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