



ALKOX water soluble resin for Cosmetic Application

Products	INCI code	Ave. M/W
ALKOX L-11	PEG-2M	100,000
ALKOX R-1000G	PEG-5M	250,000
ALKOX E-20G	PEG-7M	300,000
ALKOX E-30G	PEG-9M	400,000
ALKOX E-45G	PEG-14M	700,000
ALKOX E-60G	PEG-20M	1,000,000
ALKOX E-75G	PEG-45M	2,000,000
ALKOX E-100	PEG-65M	3,000,000
ALKOX E-160G	PEG-90M	4,000,000
ALKOX E-240	PEG-115M	5,000,000

INCI: International Nomenclature Cosmetic Ingredient
ALKOX: polyethylene oxide

Features of ALKOX

- Perform as viscosity modifier with low dosage
- Improve binding strength
- Improve dispersibility
- Provide stability for emulsion
- Provide lubricity
- Add anti-static effect
- Add moisturizing effect

Advantages of ALKOX

- Neutral pH provides less concern about skin contact
- Least odor makes easier for formulation work
- Granular shape provides no dust operation by 250-350 micron average particle size

Example of Application

Shampoo, Conditioner, Body soap, Liquid Soap, Cosmetic Remover, Hair wax, Skin cream, Shaving gels, Bath soap, Hair dye etc.

General Properties

Appearance	White granular powder
Odor	Faint aromatic
Volatile content	Below 1%
Ash content	Below 1.5%
Solution pH	7.0±1.0
Bulk density	Ca 0.4
Melting point	65 ~ 67 degree C

Grade recommendation

	INCI	ALKOX	Dosage (wt%)
Cream and lotion	PEG-65M	E-100	0.25-0.75
	PEG-45M	E-75G	0.25-0.75
Cold cream	PEG-65M	E-100	0.5
Detergent liquid	PEG-9M	E-30G	0.05-0.1
Hair conditioner	PEG-65M	E-100	0.25
Liquid soap	PEG-9M	E-30G	0.1-2.0
	PEG-65M	E-100	0.1-1.0
	PEG-45M	E-75G	0.1-1.0
Shampoo	PEG-65M	E-100	0.25-0.5
	PEG-45M	E-75G	0.25-0.5
Shaving gel	PEG-65M	E-100	0.3-1.0
	PEG-9M	E-30G	0.7-2.0

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