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POLYETHYLENE GLYCOL 400

CAS #: 25322-68-3

DESCRIPTION

Polyethylene Glycol 400 with an average molecular weight of 400 is a member of polyethylene glycols (PEGs) family with the general formula of $H(OCH_2CH_2)_nOH$ which are condensation polymers of ethylene oxide and water having a clear, viscous liquid form at room temperature.

TECHNICAL SPECIFICATIONS

Appearance at 25°C	: Clear liquid
Color pt-co	: 25.0 Max.
Viscosity at 98.9°C, cSt	: 6.8 - 8.0
pH (5% Solution)	: 4.5 - 7.5
Residue on ignition, %wt	: 0.1 Max.
Assay (Average molecular weight), g/mol	: 380 - 420
Water content, %wt	: 2.0 Max.
Packing	: 220 kg new drums on pallets

APPLICATIONS

Polyethylene Glycols due to having advantages such as being non-toxic, odorless, neutral, lubricating, non-volatile and non-irritating, are used in large number of industrial applications such as:

- Chemical Intermediates
- Plasticizers
- In cosmetics for preparation of ointments and lotions.
- As a mold release agent and lubricant for both natural and synthetic products.
- As a dispersant and emulsifier for agricultural herbicides and pesticides.
- For lubricity in paper coating mixes; also as anti-sticking agents and oil resisters.
- In metal working industries as an additive in abrasives, for electropolishing and electroplating processes and in drawing and extrusion compounds.
- As a dye solubilizer in the continuous dyeing of nylon fabrics.
- As a humectant in topical spin finishes
- As an antidust compound for coal dust and fertilizer.

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