

Technical Data Sheet

CARBOWAX™ SENTRY™ Polyethylene Glycol (PEG) 1450

Product	CAS # 25322-68-3
Description	CHEMICAL FAMILY – Oxyalkylene Polymer CFTA NOMENCLATURE – PEG-32

Typical Physical Properties – CARBOWAX™ SENTRY™ Polyethylene Glycol 1450 NF, FCC⁽¹⁾

Range of Avg. Molecular Weight	1305 – 1595
Range of Average Hydroxyl Number, mg KOH/g	70 – 86
Density, g/cm ³ @ 20°C	1.0919
Melting or Freezing Range, °C	42 – 46
Solubility in Water at 20°C, % by wt	72
Viscosity at 100°C, cSt	26.5
Average Number of Repeating Oxyethylene Units	32.5
Avg. Liquid Specific Heat, cal/g/°C	0.51
Heat of Fusion, Cal/g	37
pH at 25°C, 5% Aqueous Solution	4.5 – 7.5
Flash Point, Pensky Martens Closed Cup, °C	246
Flash Point, Cleveland Open Cup, °C	285
Physical Form	Molten, Flake ²
Weight per gallon, lbs/gal @ 55°C	9.15

1. Typical properties, not to be construed as specifications

2. Contains BHT, 100 ppm nominal

Typical Known Applications for Polyethylene Glycols*

- Cosmetics & Personal Care
- Chemical Intermediates
- Food Processing & Packaging
- Pharmaceuticals

*Refer to the CARBOWAX™ SENTRY™ Polyethylene Glycols and Methoxypolyethylene Glycols brochure (Form No. 118-01790-1011) for more specific application information.

FDA Status

CARBOWAX™ SENTRY™ Polyethylene Glycols are produced to meet the requirements of the National Formulary (NF) monograph and the Food Chemicals Codex (FCC) monograph.

Product Stewardship

Dow encourages its customers and potential users to review their applications from the standpoint of human health and environmental aspects. To help ensure that Dow products are not used in ways for which they are not intended or tested, Dow personnel will assist customers in dealing with environmental and product safety considerations. Dow literature, including material Safety Data Sheets, should be consulted prior to the use.

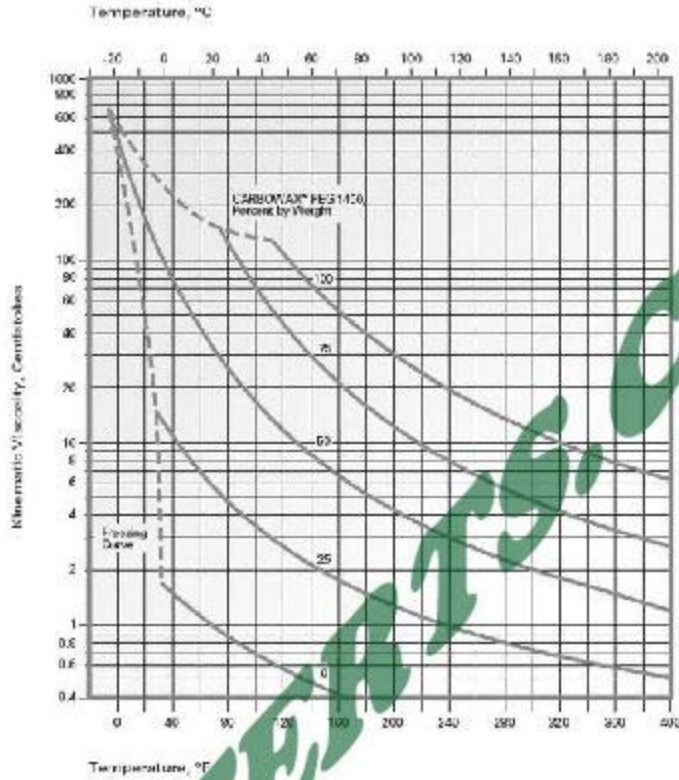


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Kinematic Viscosity of Aqueous Solutions of CARBOWAX™ SENTRY™ Polyethylene Glycol 1450



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