



Technical Data Sheet

WALOCEL™ VP-M-49125 Cellulose Ether

Product Description

WALOCEL™ VP-M-49125 Cellulose Ether is a modified hydroxyethyl methyl cellulose (HEMC).

Sustainability Attribute:



Application and Advantages

WALOCEL™ VP-M-49125 Cellulose Ether was developed for cement-based applications, like cement-based tile adhesives. It imparts well-balanced properties to cement-based tile adhesives, e.g.

- Open time
- Slip resistance
- Adhesion and shear strength according to different storage conditions.

It also imparts good workability and enhances water retention. The selected particle size distribution helps to achieve quick dissolution. It is compatible with all conventional mineral and organic binders.

Typical Properties¹

Property	Unit	Result
Form		Powder
Solubility		Water soluble
Viscosity ²	mPa•s	5,000 to 10,000
pH		Neutral (2% solution)
Moisture content	%	Max. 7

1. Please note that the viscosities and other values shown are typical values for your guidance. They are not to be taken as specifications and are subject to certain variability. Please consult the sales specifications for details.
2. 1% solution in water, Haake Rotovisko RV 100, shear rate 2.55 s⁻¹, 20°C

Safety Considerations

Safety Data Sheets (SDS) are available from The Dow Chemical Company. SDS are provided to help customers satisfy their own handling, safety and disposal needs and those that may be required by locally applicable health and safety regulations. SDS are updated regularly, therefore, please request and review the most current SDS before handling or using any product. Cellulose ether products' long history attest to their safety in a wide variety of applications. While the dust may cause mechanical irritation to the skin and eyes under extreme conditions, the products are considered to present no significant health hazard under normal handling conditions.

For further questions consult your Dow contact person.

Health

WALOCCEL™ products have had extensive evaluation in both acute and long-term studies in a number of species, including humans. Their many years of use attest to their safety in a wide variety of applications. While the dust may cause mechanical irritation to the skin and eyes under extreme conditions, the products are considered to present no significant health hazard under normal handling conditions.

Storage and Handling

During use or storage, safe handling is required to prevent dusts with air from reaching explosive levels as is true with other organic materials of similar particle size. When handling large quantities, local applicable regulations concerning the prevention of dust explosions should be followed. Additionally, WALOCCEL™ VP-M49125 Cellulose Ether products, like other organic chemicals, should not be stored next to peroxides or other oxidizing agents.

Fine dust of this product can form explosive mixtures with air and could pose fire and explosion hazard; keep away from ignition sources. Take precautions to avoid accumulation of static charge. Practice care and caution to avoid explosive conditions.

Flammability

Cellulose ether products are organic polymers that will burn when exposed to heat and a sufficient oxygen supply. Fires can be extinguished by conventional means avoiding any raising of dust by strong water jets. Dow recommends the use of water spray, carbon dioxide, or powder extinguishers.

Spills and Housekeeping

Solutions of WALOCCEL™ products are slippery. To prevent accidents, floor spills of dry powder should be swept up dry. If the spill is a viscous solution, it should be removed by further diluting with water before disposal.

Disposal

Typically, WALOCCEL™ products can be disposed of by industrial incineration or in an approved landfill, providing regulations are observed. Customers are advised to review their local, state, provincial, or national regulations governing the disposal of waste materials to confirm the appropriate means of disposal in their area.

Chemical Registration

Many countries require the registration of chemicals, either imported or produced locally, prior to their commercial use. Violation of these regulations may lead to substantial penalties imposed upon the user, the importer or manufacturer, and/or cessation of supply. It is in your interests to ensure that all chemicals used by you are registered. The Dow Chemical Company does not supply unregistered products unless permitted under limited sampling procedures as a precursor to registration.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products — from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

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