

deffner & Johann

Supplies for RESTORATION | CONSERVATION | ART HANDLING – SINCE 1880

TECHNICAL DATA SHEET

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MENTHOL VBM VOLATIL BINDING MEDIA

The acronym VBM means "Volatile" Binding Media "in general are waxy or crystalline solids that sublimate (pass directly from a solid to a vapor phase) at room temperature. Substitute for discontinued Ciclododecane.

It is a terpene from the methane family and has an OH group in C-3. It has a melting point of 43-45°C and a boiling point of 212°C. It is not readily soluble in water (0.400 mg/l), however it is readily soluble in many organic solvents such as alcohols, ethers, etc. The most outstanding property is its extremely good film forming ability.

Compared to the CYCLODODECAN:

It has a faster sublimation rate

It has a lower melting point

In the molten state it does not solidify quickly and is easier to apply by brush.

It forms a dense and uniform film which is better as a release agent or filler for making molds with silicone rubber.

It is soluble in polar solvents.

Application

It is used as a protection for objects during restoration and their transport. Thanks to its good bonding ability, it is particularly suitable for laminations. A film thickness of about 500 µm is sufficient to guarantee stability for about two weeks. It is also used to protect water-sensitive surfaces or for partial cleaning, etc. It can be applied in the molten state by means of a hot spraying device.

Toxicity / flammability

The product is considered neither toxic nor flammable. Slightly irritating.

Specification of parameters

Appearance:	solid colorless crystalline
Molecular formula:	C ₁₀ H ₂₀ O
Solubility in water:	Practically insoluble
Solubility solvents:	Very soluble in alcohol, in ether and light petroleum, in oils and fats.
Melting range:	43 - 45°C
Flash point:	93°C
Solutions:	Clear and colorless solutions
Sublimation:	0.04 mm/24h
Residual:	max. 0.05% (after complete evaporation)

