

# NiTCHEM HV-S

## VINYL ACETATE HOMOPOLYMER, CAS NO. 9003-20-7

### PRODUCT DESCRIPTION

NiTCHEM HV-S is a solid, thermoplastic homopolymer. The clear and colorless resin is prepared by polymerization of vinyl acetate. NiTCHEM HV-S is tasteless.

### APPLICATION

Typical applications for NiTCHEM HV-S:

- fiber reinforced plastics
- adhesives
- powder injection molding
- sound damping

### PROCESSING

Solid content in styrene	Viscosity Brookfield RVT, 20 RPM, 23°C (PML 002)
20 %	1500 mPa·s
30 %	18000 mPa·s
40 %	160000 mPa·s

### STORAGE

NiTCHEM HV-S should not be stored at temperatures above 20 °C in order to prevent caking. Storage conditions must be dry; material must be protected from direct sun exposure. Under these conditions the product has a shelf life of at least 12 months.

### PACKING

NiTCHEM HV-S is supplied in 25kg Paper Bags and 20kg Cartons. Big Bag is available on request.

### ADDITIONAL INFORMATION

If NiTCHEM HV-S is used in applications other than those mentioned, the choice, processing and use of NiTCHEM HV-S is the sole responsibility of the purchaser. All legal and other regulations must be complied with.

### SAFETY NOTES

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from NiTCHEM subsidiaries or may be printed via NiTCHEM Chemical web site <http://polyvinylacetate.webs.com>

<b>Product Data</b>		
<b>Specification data</b>	<b>Inspection Method</b>	<b>Value</b>
Viscosity (10% in ethyl acetate), 20 °C	ASTM D 445 - 06	35 - 55 mPa*s
Volatiles	specific method	< 1,0 wt. %
Values are documented in the certificate of analysis.		
<b>Typical general characteristics</b>	<b>Inspection Method</b>	<b>Value</b>
Acid number	specific method	< 0,5 mg KOH/g
Bulk density	DIN 53466	700 - 850 kg/m <sup>3</sup>
Supply form		solid, colorless beads, odorless and tasteless
Density of the polymer	DIN EN ISO 1183 /1-3	approx. 1,18 g/cm <sup>3</sup>
Softening point	DIN ISO 4625, by Ring and Ball	approx. 200 °C
K-value	DIN 53726	67 - 73
Molecular weight (MW)	SEC, PS-Standard	approx. 400,000 g/mol
Glass transition temperature	DSC (DIN 53765 / ISO 11357-5)	approx. 44 °C