

# SOLVITOSE PLV



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Industrial Specialties  
Glass Fibres

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## Scope

Description SOLVITOSE PLV is a pregelatinized quaternary cationic potato starch ether

Appearance Off-white flakes

## Requirements

Moisture content 70 ... 150 mg/g  
Degree of substitution (DS) 0.033 ... 0.037 mol/mol  
Viscosity 150 ... 450 mPa.s  
pH 7.0 ... 9.5  
Conductivity  $\leq 600 \mu\text{S}\cdot\text{cm}^{-1}$

## Test methods

Moisture content ISO 1666

Degree of substitution (DS) After washing the nitrogen content is determined according to the Kjeldahl method. The degree of substitution (DS) is calculated as:  $DS = (162 \times N) / (14000 - 151.5 \times N)$   
The nitrogen content N in mg/g on dry substance

Viscosity Concentration : 20 g product in 480 g distilled water  
Stirring : at  $n = 300 \text{ min}^{-1}$  for 30 minutes with an 8-holes blade stirrer  
Measuring temp. :  $20^\circ$   
Viscosity meter : Brookfield LVF; spindle 1,  $n = 12 \text{ min}^{-1}$

pH The solution obtained with the viscosity test is measured.

Conductivity The solution obtained with the viscosity test is measured

## Storage

Store inside, cool and dry, in sound and well closed bags.  
Recommended storage time not longer than 3 years.