



## SELVOL™ E 310 Polyvinyl Alcohol

### DESCRIPTION

SELVOL™ E 310 is a medium viscosity fully hydrolysed polyvinyl alcohol which finds applications principally in the Paper and Textile industries.

### COMMERCIAL SPECIFICATIONS

IT 06-04-101 P

Test	Specification	Method	Internal Reference	International Reference
Viscosity <sup>(a)</sup> (cps)	9.0 - 11.0	Brookfield	IT 06-06-225 P	ISO 2555
Degree of Hydrolysis Mol %	98.0 - 98.8	Titration	IT 06-06-224 P	
Ash <sup>(b)</sup> Wt %	1.2 Max.	ISE	IT 06-06-200 P	
Volatile Wt %	5.0 Max.	Drying	IT 06-06-221 P	
Methanol Wt%	0,9 Max	GC-HS	IT 06-06-217 P	
VOC Wt%	1,0 Max	GC-HS	IT 06-06-217 P	
pH <sup>(c)</sup>	5.0 - 7.0	Potentiometry	IT 06-06-226 P	ISO 976

(a) Of a 4% aqueous solution at 20°C (b) Expressed as Sodium Oxide (c) Of a 4% aqueous solution

### GENERAL PROPERTIES

Appearance .....	Off white granular solid
Refractive Index $n_D^{20^\circ C}$ .....	1.52 - 1.55
Specific gravity .....	1.27 - 1.31
Specific heat (J/g K) .....	1.65 - 1.67
Thermal conductivity (W/m C) .....	~2
Mean coefficient of thermal expansion at 0-45°C ( $\times 10^{-5} / ^\circ C$ ) .....	7-10
Glass transition temperature (°C) .....	85
Melting point (°C) .....	230
Light stability .....	Excellent
Electrical resistivity ( $\Omega \text{ cm} \times 10^7$ ) .....	3.1 - 3.8

### APPLICATIONS

**Paper:** Surface sizing ; Pigment coating ; Thermal paper ; Antigrease treatment.

**Textiles:** Non wovens.

**Others:** PVB production ; Water soluble films.

### PACKAGING

SELVOL™ E 310 can be made available in the following packaging:

- 25 Kg Antistatic Polyethylene bags palletised on CP1 pallets 1.25 TM (shrink wrapped or stretch wrapped) 4 way entry pallets.
- 500 Kg and 1000 Kg Polypropylene Rafia Big Bag palletised on 90 x 90 cm (stretch wrapped) 4 way entry pallets.
- Bulk transportation vehicles 20 - 25 TM Maximum.
- Other packaging may be available on request.



## STORAGE

**SELVOL™ E 310** Polyvinyl alcohol is stable over a long period of storage under dry conditions.

## TRANSPORT

Not regulated.

## HEALTH , SAFETY , ENVIRONMENT

Please refer to the **SELVOL™** Material Safety Data Sheet for the product.

## OTHER INFORMATION

- Customs Tarif No: 3905.3000.
- Polyvinyl alcohol is registered in the following inventories: AICS (Australia), CEPA DSL (Canada), TSCA (United States), MITI (Japan), AUSTRIA, CHINA, PHILIPPINES and SOUTH KOREA.
- CAS NUMBER: 9002-89-5

## FOOD CONTACT STATUS

**SELVOL™ E 310** conforms to various FDA and BfR regulations for use in food contact applications. The user should check the regulation corresponding to the proposed application, in order to verify that the **SELVOL™** grade to be used is within the specified limitations. For more details the user is invited to contact our customer service department.

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