



## SELVOL™ E 523 Polyvinyl Alcohol

### DESCRIPTION

SELVOL™ E 523 is a medium viscosity partially hydrolysed polyvinyl alcohol which finds applications principally in the Adhesives, Paper and Textile industries.

### COMMERCIAL SPECIFICATIONS

IT 06-04-101 P

Test	Specification	Method	Internal Reference	International Reference
Viscosity <sup>(a)</sup> (cps)	23.0 - 27.0	Brookfield	IT 06-06-225 P	ISO 2555
Degree of Hydrolysis Mol %	87.0 - 89.0	Titration	IT 06-06-224 P	
Ash <sup>(b)</sup> Wt %	0.5 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>	4.5 - 6.5	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 .....	White to 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) .....	58
Melting point (°C) .....	180
Light stability .....	Excellent
Electrical resistivity ( $\Omega \text{ cm} \times 10^7$ ) .....	3.1 - 3.8

### APPLICATIONS

**Adhesives:** PVAc emulsions for wood,paper, packaging and building ; Remoistenables.

**Paper:** Surface sizing; Antigraze treatment.

**Textiles:** Spun yarn sizing / Synthetic; Filament yarn sizing; Finishing; Printing.

**Others:** Cement mortars (fine powder product); Gypsum boards (fine powder product); Ceramics binder and coating; Protective strip coatings; Mould release polyester / silicone; PVC Polymerisation; Water soluble films.

### PACKAGING

SELVOL™ E 523 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 523** 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: 25213-24-5

## FOOD CONTACT STATUS

**SELVOL™ E 523** 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.

### North America

Sekisui Specialty Chemicals America, LLC  
1603 West LBJ Freeway, Suite 200  
Dallas, TX 75234 USA  
Tel: +1-972-277-2900  
Fax: +1-972-277-2907

### Europe

Sekisui Specialty Chemicals Europe, S.L.  
Ctra. N-340, Km 1157  
Apartado de Correos 1388  
43080 Tarragona, Spain  
Tel: + 34-977-549-899  
Fax: + 34-977-544-982

[www.sekisui-sc.com](http://www.sekisui-sc.com)

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