



# ALCOTEX 80

## GENERAL INFORMATION

Alcotex 80 is an 80% hydrolysed high molecular weight polyvinyl alcohol which has been specially developed for use as a primary suspending agent for vinyl chloride suspension polymerisation.

## PROPERTIES AND USES

Experience of working closely with PVC manufacturers has contributed to the development of this product.

In listing the advantages of using Alcotex 80, it must be noted that differences in the PVC grade, polymerisation recipe and plant design influence the extent to which any of these benefits are obtained.

The use of Alcotex suspending agents requires no significant plant modification.

## SPECIFICATION

Total Solids	≥ 95.0%
Degree of Hydrolysis	78.5-81.5 mole%
Viscosity @ 20°C, 4% solution	36-42 mPa.s
Ash Content	0.5% max. as Na <sub>2</sub> O

## OTHER TYPICAL PROPERTIES

Appearance	White granular solid
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## PROPERTIES AND USES

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The following are advantages, when compared with other 80% hydrolysed polyvinyl alcohol primary suspending agents:-

### A) PVC Plant Output and Operating Cost

1. The polymer build-up in the reactor is low, reducing down-time for cleaning.
2. The desired grain size can be achieved using low levels of Alcotex 80.
3. PVC grains of high bulk density are produced,.

### B) PVC Polymer Quality

1. Alcotex 80 is used to make PVC with a wide range of porosities and bulk densities.
2. The PVC grains made with Alcotex 80 tend to be more spherical such that slightly higher bulk density may be combined with minimum reduction in porosity and with optimum flow characteristics.
3. Plasticiser absorption properties can be adjusted to give fast dry-up times.

## HEALTH AND SAFETY

Please consult the relevant material safety data sheet for more details.

## PACKAGING

Alcotex 80 is supplied in 20kg (nominal) paper sacks. Each sack carries the grade number, batch number and net weight. Deliveries are palletised with each pallet being stretch wrapped and labelled with the relevant shipping marks.

## STORAGE

1. Alcotex 80 should be stored away from wet areas and naked flames. Ingress of moisture should be avoided to maintain product quality.
2. As supplied, the product should remain fit for use for 12 months from the date of delivery. Beyond that date, the material may still be fit for use, but we would advise that it is good practice to test the material. As such, we advise that material stored for 12 months or more after delivery should be tested before use.
3. Aqueous solutions of Alcotex 80 if stored for long periods at elevated temperatures are prone to mould and bacterial attack.





## **HEALTH AND SAFETY**

Alcotex 552P is an aqueous solution of a partially hydrolysed polyvinyl alcohol. It contains less than 2% residual methanol. More detailed information regarding its safe handling is contained in the relevant Health and Safety Data sheet.

## **PACKAGING**

Alcotex 552P can be supplied in 200kg plastic drums, 1000kg cage type intermediate bulk containers or as full bulk deliveries.

## **STORAGE**

Alcotex 552P is stable under normal storage conditions, but do not store in temperatures at or above 45°C.

Alcotex 552P should be stored in sealed containers as received. In this condition, the product should remain fit for use for 12 months from the date of delivery. Beyond that date, the material may still be fit for use, but we would advise that it is good practice to test the material.

With normal standards of plant housekeeping there is no need to add bactericides. If circumstances dictate the use of bactericides then any of those which are compatible with PVC polymerisation or application may be used. If equipment becomes infected, dilute hypochlorite should be used for sterilisation.



## *TrigonoxEHP 60 (catalyst 1)*

<i>Bis (2-ethylhexyl) peroxy dicarbonate</i>			
<i>Composition/parameter</i>	<i>Unit</i>	<i>Specification</i>	<i>test method</i>
<i>PEROXIDE CONTENT</i>	<i>wt%</i>	<b>60</b>	
<i>Molecular weight</i>	<i>g/mol</i>	346.5	
<i>Density(0°C)</i>	<i>g/cm<sup>3</sup></i>	0.99	
<i>Viscosity(0°C)</i>	<i>mPas</i>	<i>Approx:210</i>	
<i>Active oxygen content Assay</i>	<i>wt%</i>	2.31	
	<i>wt%</i>	50	
<i>Methanol content</i>	<i>wt%</i>	<14.5	
<i>SADT</i>	<i>°C</i>	+5°C	
<i>Emergency temperature</i>	<i>°C</i>	-5°C	
<i>Controlled temperature</i>	<i>°C</i>	-15°C	
<i>Consumption</i>	<i>Ton/year</i>	102	
<i>Consumption/1 Ton of s/pvc</i>	0.34 kg		
<i>From</i>	50% emulsion in water/methanol		
<i>Half-life-time</i>	t50/AT 0.1h/83°C 1h/64°C 10h/47°C		
<i>Appearance</i>	Whit to off-whit emulsion		
<i>Shelf life</i>	6 months		