

Alcotex 432P is a 43% hydrolysed polyvinyl alcohol supplied as a low viscosity methanol based solution. It has been specifically developed by Synthomer Limited as a secondary suspending agent for vinyl chloride suspension polymerisation.

It may be used in conjunction with conventional primary suspending agents. In optimised recipes, improvements can be obtained in the porosity/bulk density relationship. Better porosity facilitates both monomer removal and plasticiser uptake. These criteria are further enhanced when Alcotex 432P is used with the Alcotex range of primary suspending agents.

Property	Typical Value	Unit	Method ¹
Appearance	Water white to pale straw/clear to slight haze		
Total Solids	39.0 - 41.0	%	ATP1
Viscosity @ 23°C, Brookfield RVT 3/20	100 - 180	mPa.s	ATP17
Water Content	<5	%	ATP27
Degree of Hydrolysis	43.0 - 46.0	mole%	ATP29

¹ internal method based upon the specified norm

Application Advice

For detailed information, please contact the Alcotex Technical service team at alcotex@synthomer.com

Alcotex 432P can be pumped directly into the reactor, usually after the water and primary stabiliser have been added. The level of primary stabiliser may need to be reduced to maintain the correct grain size.

Alcotex 432P can be used over the whole molecular weight range, at high K values to increase plasticiser absorption and at low K values to improve VCM release.

Increased porosity obtained by using Alcotex 432P allows less severe stripping conditions to be used to achieve the required residual monomer levels. Thus it is often possible to reduce stripping time, steam consumption or stripping temperature with attendant advantages in increase output, reduced costs and improved product heat stability.

PVC porosity may be enhanced at a given conversion level or a higher degree of conversion may be obtained for the same porosity.

An additional opportunity is provided to design the polymer by modifying the porosity/bulk density relationship. A more homogeneous distribution of porosity may be obtained. PVC grains made with Alcotex 432P tend to be more spherical which gives improvement in bulk density.

Shipping and Storage

Since the product is dissolved in methanol, the requirements of local legislation (with respect to methanol) must be strictly observed. These will relate to flammability and toxicity. See our material safety data sheet for more details.

Alcotex 432P can be delivered either in bulk, road tanker, or in 220kg metal drums.

Alcotex 432P should be stored in sealed containers as received. In this condition, the product should remain fit for use for 24 months from the date of production. Beyond that date, the material may still be fit for use, but we would advise that it is good practice to test the material.

Product Safety

Before handling, please read the Safety Data Sheet of this product for advice on safety, use and disposal.