



Print this page Flame Retardants

Additives

Exolit® AP 420

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Aqueous solution of ammonium polyphosphate (APP).

Product Description

Exolit AP 420 is an approx. 45 % clear to cloudy aqueous solution of a short-chain ammonium polyphosphate.

Benefits

- Suitable as flame retardant for wood, paper and textiles
- Non-halogenated flame retardant with favorable environmental and health profile

Specifications

Characteristics	Unit	Target value	DS ¹⁾	TD ²⁾	Test method
Chemical Formula		$[\text{NH}_4\text{PO}_3]_n$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Phosphorus	% (w/w)	12.5 - 13.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Photometry after oxidizing dissolution; (11/17)
Water / Moisture	% (w/w)	53.5 - 56.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Karl-Fischer titration; (11/21) (DIN 51,777)
Nitrogen	% (w/w)	min. 9	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Density	g/cm ³	1.29 - 1.31	<input checked="" type="checkbox"/>	<input type="checkbox"/>	at 20° C, flexural resonator acc. to DIN 51,757-4; (11/65)
Viscosity	mPa*s	max. 100	<input type="checkbox"/>	<input checked="" type="checkbox"/>	at 20° C
pH Value	% (w/w)	5.0 - 7.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Potentiometry at 20° C; (11/12)

¹⁾ Delivery specification: The product is constantly monitored to ensure that it adheres to the specified values. Test methods: Clariant method numbers 11/xx in brackets.

²⁾ Technical data: The technical data are used solely to describe the product and are not subject to regular monitoring.

Applications

Exolit AP 420 is a suitable flame retardant for wood, paper and textiles.

Packaging and Handling

Delivery form

Clear to cloudy aqueous solution

Packaging

Exolit AP 420 is dispatched in 150 I-PE hobbock/drums (180 kg net).

Storage

At temperatures between 10 and 25 °C Exolit AP 420 is stable for about 12 months. We recommend stirring the material before using it. Exolit AP 420 can be carefully warmed up under stirring to 30°C to gain a clear solution.

Minimum shelf life is 12 months from the date of shipping when stored according to the said conditions.

Safety

For regulatory details such as the classification and labelling as dangerous substances or goods please refer to our corresponding Material Safety Data Sheet.

Contact Us;

Please contact us for safety and regulatory details or the Material Safety Data Sheet (MSDS).

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