



product information

AFLAS[®] 150CS Latex

DESCRIPTION

AFLAS 150CS Latex is an alternating tetrafluoroethylene–propylene copolymer in an aqueous suspension. It is used as an elastomeric surface treatment of various substrates such as metals, ceramics, plastics, other elastomers, textiles, and paper. Classified by ASTM D 1418-01 as FEPM.

MATERIAL FEATURES

- **Heat Resistance*:** Mechanical properties of AFLAS do not deteriorate even when used for prolonged exposure to 200°C. AFLAS can be used continuously for 2 to 3 months at 230°C and for 10-30 days at 260°C.
- **Chemical Resistance:** Parts fabricated from AFLAS compounds perform well in the amine and base-rich environments commonly found in sour oil and gas exploration, completion and production. In automotive and heavy equipment applications, AFLAS stands up well to attack from amine-containing additives in oils and transmission fluids.
- **Steam Resistance*:** Unaffected by extended exposure to 200°C steam.
- **Electrical Properties:** Excellent volume resistivity (greater than 10^{16} Ω-cm) unmatched by other fluoroelastomers.
- **Radiation Resistance*:** Stable up to 200 MRad of gamma ray radiation.

*Application design may vary results.

END USER BENEFITS

- Improved flexibility
- Excellent thermal and chemical stability
- Water and weather resistant

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TYPICAL APPLICATIONS

- Binder
- Coating additives
- Surface modified parts
- And more...

PROCESSING RECOMMENDATIONS

- AFLAS 150CS Latex contains residual amounts of materials used in polymerization including tertiary butyl alcohol. Use in only well ventilated work areas.
- AFLAS 150CS Latex can be diluted with water; however, the user should test the stability (suspension, etc.) of the diluted latex prior to use. Other additives can be added to the latex; again, the user should test the stability (suspension, etc.) of the latex prior to use.
- Treat hydrophobic substrate surfaces with primers, coupling agents, or other agents prior to application of the latex.
- AFLAS 150CS Latex may become coagulated by impact or by exposure to freezing temperatures.
- To avoid contamination, do not mix used AFLAS 150CS latex with fresh latex.

If at any time you have questions or concerns about a specific application, please contact your account manager for assistance.

AFLAS 150CS LATEX TYPICAL PROPERTIES

Property	Units	AFLAS 150CS LATEX
Appearance		White, milky liquid
Solids	%	30-35 weight
pH	%	7-9
Specific Gravity		1.05-1.20
Particle Size		50-200 nanometers

NOTE: The data listed here represents typical values for the stated grades of AFLAS® fluoroelastomers. This information should be used as a guide only and not to establish specification limits or design criteria. AGC Chemicals Americas assumes no obligation or liability for any advice furnished by us or for results obtained with respect to this product. All such advice is provided free of charge and the buyer assumes sole responsibility for results obtained in reliance thereon.

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HANDLING PRECAUTIONS

AFLAS Fluoroelastomers are stable at normal conditions and are not regulated by the U.S Department of Transportation. Avoid temperatures above 400°C. Fluoroelastomers can react with molten alkali metals and finely divided magnesium and aluminum at temperatures above 425°C. Thermal decomposition of this product at temperatures above 400°C will generate hydrogen fluoride, which is corrosive. No polymerization will occur under normal processing conditions.

The shelf life of AFLAS Fluoroelastomers can be guaranteed by AGC Chemicals for 6 months after date of delivery for unopened packages. However the properties are not impacted by storage time. Storage and handling facilities should be designed to minimize exposure to extreme temperatures and dusty environments.

Wear protective gear and avoid tobacco use at all times when handling fluoroelastomers. Consult your Material Safety Data Sheet for safe handling details or contact your AGC Chemicals Technical Representative for clarification.

For more information and samples contact

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AFLAS 150CS Latex Product Information Sheet 09/2015

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