



TECHNICAL INFORMATION SHEET

E-series AQUEOUS DISPERSION GRADE AD309E

Description

Fluon® AD309E is an aqueous dispersion of polytetrafluoroethylene (PTFE) particles stabilised with an alcohol ethoxylate non-ionic surfactant. The PTFE particles are negatively charged and have a mean size in the range 220 to 250 nm. The manufacturing process for Fluon® AD309E does not use ammonium salts of perfluorooctanoic acid (PFOA).

End Uses

Fluon® AD309E has been formulated to give excellent wetting and crack resistance when coating substrates. It is primarily used for the impregnation and coating of high temperature resistant materials to impart properties of non-stick and low friction. Typical uses include the impregnation of woven and braided fabrics and the coating of yarns. In the coating of woven

glass cloth the superior wetting ability of AD309E makes it especially suitable for top coats.

Processing

The processing of Fluon® AD309E in impregnation applications is described in Technical Service Note F6, "Impregnation with Fluon® PTFE Aqueous Dispersions".

Storage and Handling

Fluon® AD309E should be stored between 5°C and 20°C. Under no circumstances must the material be stored below 0°C, otherwise irreversible coagulation may result.

To prevent settling, the dispersion must be stirred at least once per month in its container. A 300 mm x 57 mm flat bladed stirrer rotating at 90 rpm for 15 minutes has been found suitable for this purpose.

This information sheet contains typical property data that should not be used for specification purposes.

Typical Properties

Property	Typical Value	Units	Test Method
Polymer type	Modified PTFE	-	-
Specific Gravity	1.515	-	FTM 22
Viscosity	15	cP	FTM 101
PTFE Content	60	%	FTM 25
Non-ionic Wetting agent content	5.5	%	FTM 25
pH	10.0	-	FTM 63

FTM = Fluon test method



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Disposal

Waste dispersion must be disposed of by landfill, in accordance with any local regulations for the disposal of liquid products of low toxicity. Alternatively, the solid phase may be incinerated under approved controlled conditions.

Safety In Use

Users must refer to the relevant Material Safety Data Sheet.

Packaging

Fluon® AD309E is supplied in Intermediate Bulk Containers.

Food Contact Approval

Information on food contact approval is available from the AGC Chemicals Europe, Ltd sales office.

Information contained in this publication (and otherwise supplied to users) is based on our general experience and is given in good faith, but we are unable to accept responsibility in respect of factors that are outside our knowledge or control. All conditions, warranties and liabilities of any kind relating to such information, expressed or implied, whether arising under statute, tort or otherwise are excluded to the fullest extent permissible in law. The user is reminded that his legal responsibility may extend beyond compliance with the information provided. Freedom under patents, copyright and registered designs cannot be assumed.

Fluon® grades are general industrial grades. It is the responsibility of the purchaser to check that the specification is appropriate for any individual application. Particular care is required for special applications such as pharmaceutical, medical devices or food. Not all grades are suitable for making finished materials and articles for use in contact with foodstuffs. It is advisable to contact the AGC Chemicals Europe, Ltd sales office for the latest position. Users of Fluon are advised to consult the relevant Health and Safety literature which is available from the AGC Chemicals Europe, Ltd sales office.

Fluon® is a registered trademark of the Asahi Glass Company.



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