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).

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.

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value</th>
<th>Units</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymer type</td>
<td>Modified PTFE</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.515</td>
<td>-</td>
<td>FTM 22</td>
</tr>
<tr>
<td>Viscosity</td>
<td>15</td>
<td>cP</td>
<td>FTM 101</td>
</tr>
<tr>
<td>PTFE Content</td>
<td>60</td>
<td>%</td>
<td>FTM 25</td>
</tr>
<tr>
<td>Non-ionic Wetting agent</td>
<td>5.5</td>
<td>%</td>
<td>FTM 25</td>
</tr>
<tr>
<td>pH</td>
<td>10.0</td>
<td>-</td>
<td>FTM 63</td>
</tr>
</tbody>
</table>

FTM = Fluon test method
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.

Packaging

Fluon® AD309E is supplied in Intermediate Bulk Containers.

Safety In Use

Users must refer to the relevant Material Safety Data Sheet.

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.
If you have an application that you think would benefit by using PTFE, PFA, ETFE or fluoroelastomer, please contact AGC Chemicals Europe, Ltd at one of the addresses below:

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