



TECHNICAL INFORMATION SHEET

LUBRICANT POWDER GRADE FL1680

Description

FL1680 lubricant is a white, finely divided, low molecular weight powder manufactured from virgin PTFE feedstock. It has an average particle size of 11 microns, a narrow particle size distribution and low surface area. FL1680 is virtually immune from chemical attack, is water repellent, has good electrical insulation properties, a wide working temperature range and has excellent weathering and ageing characteristics.

Applications

FL1680 is primarily used as an additive in other materials to improve wear resistance and enhance lubricity, non-stick and frictional characteristics of the host media. It may be incorporated into products such as printing inks, oils, greases and industrial finishes. FL1680 is particularly suitable for use in printing inks and industrial finishes due to its fine particle size but may also be used in oil, grease and sealing paste applications where low starting torque and a smooth sliding action is required.

Lubricant powder applications, properties and processing data are contained in the Lubricant Applications Brochure, available upon request.

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

Typical Properties

Property	Typical Value	Units
Bulk density	450	g/l
Relative density	2.2	-
Particle size (Hegmann gauge)	AVE : 9	Microns
Particle size (Optical Microscope)	AVE : 11	Microns
Particle size (Sympatec laser diffraction)	D ₁₀ : 5 D ₅₀ : 15 D ₉₀ : 35	Microns
Surface area (Krypton adsorption)	0.8	m ² /g
Melting peak temperature (D.S.C.)	328	°C
Service temperature range	- 190 to 260	°C
FDA compliant composition?	YES	-



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Packaging and Storage

FL1680 is supplied in 25 kg laminated fibreboard kegs. The powder is contained within two polythene liners, individually sealed. Kegs of FL1680 should be stored in cool dry conditions prior to use.

Disposal

Waste polymer should be disposed of by landfill in accordance with any local regulations for the disposal of products of low toxicity or may be incinerated under approved controlled conditions.

Food Contact Approval

Information on food contact approval is available from the AGC Chemicals Europe, Ltd Sales Office.

Safety In Use

Users must refer to the relevant Material Safety Data Sheet.

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 which 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 trade mark of the Asahi Glass Company.



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