

Algoflon® L101

Polytetrafluoroethylene

Solvay Specialty Polymers

Message:

Algoflon® L101 a white PTFE micronized powder produced from dispersion polymerization comprising loose agglomerates of sub-micon sized primary particles.

Algoflon® L101 can be de-agglomerated to sub-micron particle size by the application of shear providing a better dispersion and distribution of the PTFE particles in the application.

Designed for use in critical engineering and high end performance lubricants, Algoflon® L101 will improved thickening effect, lubricity, improved corrosion and temperature resistance.

Main Algoflon® L101 features are:

Low coefficient of friction and reduced wear

Outstanding chemical and corrosion resistance

High temperature resistance

Good low temperature torque

General Information			
Appearance	White		
Forms	Powder		
Physical	Nominal Value	Unit	Test Method
Specific surface area	> 14	m ² /g	Internal method
Average particle size-Surface	3.5	µm	Internal method
Volume density	325	g/l	ASTM D4895
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	325 - 335	°C	ASTM D3418
Additional Information			

Processing

Algoflon® L101 micronized powder are ideal for dispersing in oils, greases and pastes to improve both high and low temperature lubricity and are preferred over conventional additives, such as graphite or molybdenum disulfide whenever potential staining cannot be tolerated

Greases incorporating up to 30% by weight of Algoflon® L101 micronized powder are effective for much longer periods than conventional greases so that lubrication frequency may be reduced substantially. Extreme environmental demands on greases, such as those experienced in the automotive industry (i.e. wide temperature ranges and heavy loads) can be accommodated by the addition of Algoflon® L101 micronized powders.

Storage and Handling

The usual precautions for safe storage and handling of Algoflon® L101 should be taken according to material safety documentation and experience.

There will be no chemical deterioration of the Algoflon® L101 during proper storage.

Shelf life of Algoflon® L101 micronized powders will vary depending upon whether the recommended storage conditions are maintained and whether the material remains free from foreign contamination during storage time (not exposed to dirt, dust, water or other chemicals). The material should remain sealed in the original containers and storage conditions should provide for protection from temperature extremes as well as rain, snow or other wet environments (or such conditions which may damage the storage containers in which the product is stored).

Safety and Toxicology

Before using PTFE Algoflon® L101 micronized powders consult the product Material Safety Data Sheet and follow all label directions and handling precautions.

As with all PTFE materials, handling and processing should only be carried out in well ventilated areas. Vapor extractor units should be installed above processing equipment. Fumes must not be inhaled and eye and skin contact ought to be avoided. In case of skin contact wash with soap and water. In case of eye contact flush with water immediately and seek medical help. Do not smoke in areas contaminated with powder, vapor or fumes. See

Material Safety Data Sheet for detailed advice on waste disposal methods.

Packaging

Algoflon® L101 is packaged in 20 kg non returnable drums. Each drum has one bag liner made of polyethylene resin.

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