

FLUORIOX® UT 18 GREASE



Nonfood Compounds
Program Listed H1
Registration No. 149751

Product Data Sheet

Perfluoropolyether grease is based on PFPE fluid.

UT 18 is a homogeneous white grease suitable for lubricating mechanical parts subjected to medium loads, used in wide temperature intervals. It is used in gearboxes, bearing, any sliding surface such as valves, screws, plungers etc. in the chemical, electronic, mechanical, military, aerospace, food and related industries.

It is resistance to oxidation and to aggressive chemical agents. It is particularly used where standard mineral and synthetic lubricants are not resistant to temperature and air degradation. UT 18 lengthens relubrication periods due to its ability to resist degradation in hostile conditions used in such as lubricating bearings subjected to the vacuum in metallizers in food packaging sector.

ADVANTAGES:

- Excellent wide temperature
- Excellent chemical inertness
- Non flammable
- Non toxic
- Use where a long life or a lubricated for life application
- Low evaporative loss
- Reduces equipment failure, downtime
- Cost effective

GENERAL PROPERTIES

Fluoriox® greases are compatible with all types of materials (glass, metals, elastomers, plastics, ceramics) and can be used in the presence of vapor, oils, water and in general, with all solvents and aggressive chemicals. Fluoriox® greases are inert and do not react at high temperature with fuels, inorganic alkalis, acids, halogens, fuming nitric and oxidizing solutions. Fluoriox® greases have dropping point above 290°C and can be used at high temperatures in hostile conditions. Compatible with most perfluoropolyether greases, however it is recommended that bearings be cleaned of existing lubricants before application. If the previous lubricant is not perfluoropolyether based, make sure to be removed with a suitable solvent.

Typical properties of FLUORIOX® PFPE Greases

Properties	Units	OT20	UT18	CR862	RT15	YNX	AR555
NLGI Class (ASTM D217)	-	2	2	1/2	2	1/2	2
Thickener	-	PTFE	PTFE	PTFE	PTFE	TALC	PTFE
Specific gravity, 20°C	g/cm ³	1,9	1,9	1,9	1,9	1,9	1,9
Viscosity of base fluid at 20°C (ASTM D445)	cSt	35	500	800	1300	250	1500
Viscosity of base fluid at 40°C (ASTM D445)	cSt	15	147	277	345	80	420
Viscosity Index	cSt	60	117	204	135	108	135
Evaporation (ASTM D 972) Weight loss approx. 66°C/22h	% (m)	0.2	-	-	-	-	-
Evaporation (ASTM D 972) Weight loss approx. 149°C/22h	% (m)	-	0.4	-	-	1.4	-
Evaporation (ASTM D2595) Weight loss approx. 204°C/22h	% (m)	-	-	1.1	0.5	-	0.5
Penetration, 25°C, (ASTM D217, worked 60 strokes)	mm/10	283	283	308	277	295	290
Continuous Service Temperature Range	°C	-70/120	-30/265	-35/280	-20/260	-40/220	-20/285
Welding load	kg/cm ²	501	794	>794	>794	>620	>794

* Made with Fomblin® PFPE.

* Fomblin® is a registered trademark of SOLVAY, the world leader in PFPE technology.

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Compatibility With Solvents

<i>Solvent</i>	<i>Fluoriox Grease Behavior</i>
Petroleum ether	Unaltered
Octane	Unaltered
Benzene	Unaltered
Ethyl ether	Unaltered
Dioxane	Unaltered
Ethyl acetate	Unaltered
Dimethylketone	Unaltered
Trichloroethylene	Unaltered
Chloroform	Unaltered
Carbon tetrachloride	Unaltered
Methanol	Unaltered
Water	Unaltered
Perfluorooctane	Soluble
Delifrene LS®	Soluble
Galden SV®	Soluble