

FLUORIOX® YVAC3 GREASE



Product Data Sheet

Nonfood Compounds
Program Listed H1
Registration No. 165399

Perfluoropolyether grease is a homogeneous white grease required for its high performance lubrication solutions under high vacuum conditions and in contact with aggressive chemicals. YVAC3 is used in "lubricating for life" applications; its lubricating properties make it suitable for parts requiring extreme pressure lubricating properties. It may be used to lubricate slides, bearings, gears, pins, bushes, valves and is widely used in the manufacturing aeronautical and electromechanical industries.

ADVANTAGES:

- High thermal stability
- Excellent chemical inertness
- Compatibility with materials
- Non flammable
- Non toxic
- Excellent EP performance
- Suitable for high vacuum applications up to 10^{-13} torr
- Prevents friction and reduces wear
- Good viscosity index
- Low evaporative loss
- Very long lubrication intervals
- 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	RT15	YNX	YVAC3
NLGI Class (ASTM D217)	---	2	2	2	1/2	3
Thickener	---	PTFE	PTFE	PTFE	TALC	PTFE
Specific gravity, 20°C	g/cm ³	1,9	1,9	1,9	1,9	1,9
Viscosity of base fluid at 20°C (ASTM D445)	cSt	35	500	1300	250	1500
Viscosity of base fluid at 40°C (ASTM D445)	cSt	15	147	345	80	397
Viscosity Index	cSt	60	117	135	108	130
Evaporation (ASTM D2595) Weight loss approx. 66°C/22h	% (m)	0.2	-	-	-	-
Evaporation (ASTM D2595) approx. 149°C/22h	% (m)	-	0.4	-	1.4	-
Evaporation (ASTM D2595) approx. 204°C/22h	% (m)	-	-	0.5	-	0.3
Penetration, 25°C, (ASTM D217, worked 60 strokes)	mm/10	283	283	277	295	243
Continuous Service Temperature Range	°C	-70/120	-30/265	-20/260	-40/220	-20/250
Welding load	kg/cm ²	501	794	>794	631	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