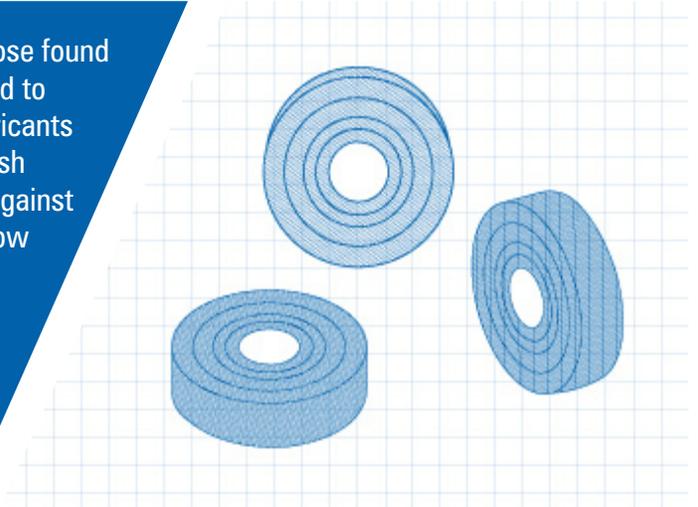


A PTFE thickened completely fluorinated grease for use in wide temperature bearing applications exposed to fuels or aggressive environments.

Automotive bearings in underhood applications such as those found in EGR Valves, e-turbo, and electronic throttles, are exposed to aggressive fuel vapors and a wide temperature range. Lubricants for these components must be able to withstand these harsh operating requirements while offering superior protection against wear and corrosion. The grease must also remain fluid at low temperatures and exhibit excellent low temperature torque properties. Uniflor™ 8922EL is a high-performance low volatility precision bearing grease that provides extended performance across a wide temperature range and offers corrosion protection in chemically aggressive environments as well.



ADVANTAGES OF UNIFLOR™ 8922EL

-  Prevent corrosion
-  Reduce low temp torque
-  Protection at high temperatures
-  Extend bearing life
-  Improve bearing efficiency
-  Protection from aggressive chemicals

PARTICLE COMPARISON



Uniflor™ 8922EL



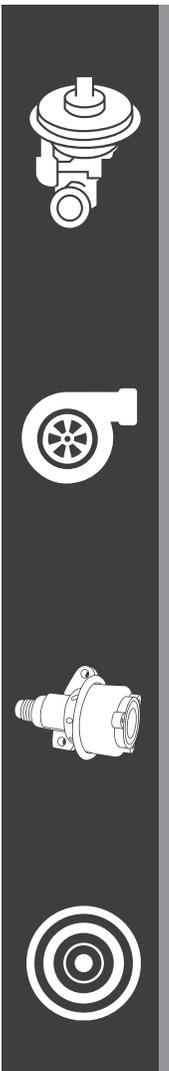
Legacy PFPE

Shown to the left is a 100X magnification of Uniflor™ 8922EL compared to the Legacy PFPE grease. Minimizing particle size is critical in preventing bearing wear and noise.

PACKAGING OPTIONS

Uniflor 8922EL is a double density formulation. A 5 gallon pail can be filled completely (75 lb) or halfway (35 lb).

-  1 kg jar
-  35 lb pail
-  75 lb pail



TYPICAL PROPERTIES

Base Oil Properties	Conditions	Uniflor™ 8922EL	Test Method
Chemistry	–	PFPE/PTFE	–
Temperature Range	–	-65 to 250 °C	–
Kinematic Viscosity	100 °C	45 cSt	ASTM D445
	40 °C	150 cSt	
Viscosity Index	–	338	ASTM D97
Grease Properties			
Color		White	–
Appearance	–	Smooth	–
P60 (1/10mm)	25 °C, 1/10mm	269	ASTM D1403
P10,000 (1/10mm)	25 °C, 1/10mm	271	FED–STD–791
Dropping Point	–	216 °C	ASTM D2265
Oil Separation	24 h, 100 °C	5.2%	ASTM D6184
Evaporation	22 h, 260 °C	1.62%	ASTM D2595
4 Ball Wear	1 h, 75 °C, 1200 rpm, 40 kg	0.784 mm	ASTM D2266
SRV OK Load	75 °C, 50 Hz	75 N	ASTM D5606
Hegman Particle Measurement	–	< 5 µm	ASTM D1210
Low Temperature Torque	-60 °C	Start – 2050 gf-cm 60 min – 424 gf-cm	ASTM D1478
Density	25 °C	1.89 g/ml	CTM*
Oxidation Stability	99 °C, 168 h	1 psi	ASTM D942
EMCOR	Distilled water	0,0	ASTM D6138
Bearing Corrosion	–	Pass	ASTM D1743
MTM Boundary Regime	150 °C, 2.43 nm film thickness	0.87 µm ³ /mm	CTM*
MTM Mixed Regime	150°C, 20.98 nm film thickness	0.05 µm ³ /mm	CTM*
BeQuiet+	1800 rpm, Ambient, 30 N	BQX 22.3%	CTM*

BeQuiet testing of Uniflor™ 8922EL shows significantly lower noise readings compared to the Legacy PFPE grease (84.5%), indicating increased bearing life.

*Base Oil and Grease Properties are for reference only and are not to be used for the final design and specification of a lubricant.

*CTM: Nye Company Test Method

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ISO 9001:2015
IATF 16949:2016
ISO 14001:2015
ISO 13485: 2016
AS 9001D

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