

SERVICE SOLUTIONS

XTRAGRADE ADVANCED PFPE 276



edwardsvacuum.com/en/service-solutions



Is there anything as important as a **stable and reliable** production?
Do you know of the many production benefits that come with using our specially
designed PFPE oil?

SERVICE SOLUTIONS FOR VACUUM

Introducing Edwards Xtragrade Advanced PFPE 276.
Our cutting-edge solution **safeguards your production,**
lowers your total cost of ownership and **extends the**
lifetime of your vacuum pump.



A stable and reliable production

Edwards Xtragrade Advanced PFPE creates a **consistent vacuum level** for your vacuum pump due to its low vapor pressure.

It is also designed to work in tough environments with its **corrosive resistant properties and chemical inertness.**



Lower your total cost of ownership

Edwards Xtragrade Advanced PFPE gives you reduced service maintenance due to its **high chemical and thermal ability.**

Plus, it reduces your energy consumption, since it maintains its **viscosity at cooler temperatures** you can start your pump from cold.



Extended vacuum pump lifetime

Edwards Xtragrade Advanced PFPE performs exceptionally well in **Anti-rust and Anti-wear tests**, is one of the best for protecting your vacuum pump and keeping your pump run well for a long period of time.

See the next page for Anti-rust and Anti-wear property evaluation.

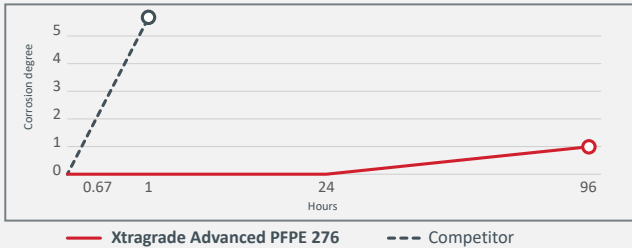


Anti-rust property evaluation:

Method: Fog test ASTM B117

Conditions: temperature = 45°C, humidity = 90%

Test done for Cast iron and Low carbon steel



Rating:

0 - No corrosion

1 - Not more than three small spots of corrosion

2 - Small areas of corrosion covering up to 1% of the surface

3 - Small areas of corrosion covering from 1% to 5% of the surface

4 - Small areas of corrosion covering from 5% to 10% of the surface

5 - Small areas of corrosion covering more than 10% of the surface

Anti-rust test results



Competitor



Xtragrade Advanced PFPE 276

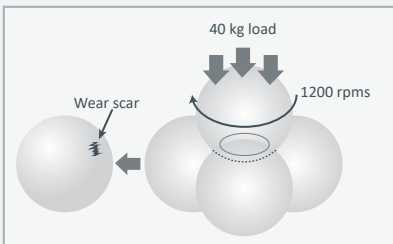
An optimum concentration of additive in Xtragrade Advanced 276 provides protection against rust



Anti-wear property evaluation:

Method: 4-ball wear test ASTM 2266 (measuring the weight loss of 4 balls)

Conditions: Speed = 1,200 rpm, load = 40kg, time = 60 mins.



Grade	T=75°C	T=150°C
Competitor	1.1	0.85
Xtragrade Advanced PFPE 276	0.96	0.74

13% less abrasion



Conclusion:

Edwards Xtragrade Advanced PFPE has enhanced Anti-rust and Anti-wear properties, enabling an extended pump lifetime.

Applications chart

Used in applications with aggressive process conditions.

PFPE Oil type	Compatible with gases	Edwards pumps examples
Xtragrade Advanced PFPE 276	Oxygen, Ozone, Nitrous oxides Halogens, Hydrogen, Halides, UF6, F2, Tritium	GXS, EXS, CXS, EDX, GV80 iGX, iXH, iXM, iXL nXRi, nXLi

Ordering Information

Oil name	Volume	Part number
Xtragrade Advanced PFPE 276	1L (1.89 Kg)	H11041111

Technical specifications

Properties	Typical value unit	Test method
Density (20°C)	1.90 g/cm³	ASTM D4052
Kinematic viscosity (20°C)	305 cSt	ASTM D445
Vapor pressure 25°C 100°C	1E-10 torr 6E-5 torr	
Viscosity index	113	ASTM D2270
Heat of vapourisation (200°C)	7.00 cal/g	



Scan the QR code to find more
about our vacuum oil on our website.



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