

ORAFON PREMIUM PAG 100 A

SPECIFICATION

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Polyalkylene Glycol

PAG Lubricants have been developed for automotive applications, specially with the use of R-134a, R-12 Refrigerant Gas.

ORAFON PREMIUM PAG 100 A are a mixture of Polyalkylene Glycols and Additives specially formulated to achieve a better lubricity, chemical and thermal stability as well as an excellent anti-wear protection of the AC/R System with R-134a, R-12, as well as for Electric Compressors. And thanks to the quality of its double-end-capped formula.

Key Benefit :

- Excellent Lubricant ability ;
- Hydrolytic Stability ;
- High Compatibility with the materials of all kind of Systems, both new and old ones (with a constant attention to their evolution over the time) ;
- Excellent properties at low temperature ;
- Low Toxicity and high biodegradability level, always following our green philosophy precepts ;
- Reduced Hygroscopicity and Additive anti humidity ;
- High Thermal Stability to Oxidation ;
- High Solubility performances with Refrigerants ;
- Optimal Miscibility with Refrigerants ;
- Even more in Double-end-capped Technology* ;

Method and Reference Unit	VALUE	Reference Method
ISO VG	100	
Kinematic Viscosity @ 40°C (cSt)	100	ASTM D 445
Kinematic Viscosity @ 100°C (cSt)	19	ASTM D 445
Viscosity Index	212	ASTM D 2270
Pour Point (°C)	-40	ASTM D 97
Flash Point (°C)	230	ASTM D 92
Density @ 15°C (g/cm³)	0.993	ASTM D 4052
Humidity Content (ppm)	300	ASTM E 1064
Total Acidity (mg KOH/g)	0.02	ASTM D 974
Colour (APHA)	18	ASTM D 1209
Capping efficiency (%)	95	IM

* Double-end-capped VS Single-end-capped

PAG Lubricant is a Polymer, a chain composed of single joined by the Hydroxyl (OH). OH terminals remain free, allowing the Hydroxyl group to have a polar behavior. These terminals can be protected (end-capped) by different organic molecules. The choice of the number of protection and the type of protection (if it is present) confers different properties to the lubricant.

The protection of both terminals (double-end-capped technology) decreases the affinity with water, its hygroscopicity, oxidation and deterioration trend. Double-end-capped lubricants are therefore much more stable: no conveying moisture and acidity in the system, it also reduces the risk of corrosion.

ORAFON has developed the best capped technology solutions for R-134a refrigerants and subsequently for R-1234yf and CO₂, in order to continuously improve the stability and efficiency.

Remark ;

It is suggested a dosage as close as possible to the quantity needed. For the biggest formats, it is recommended to quickly close the container and keep it in a cool and dry place in order to avoid the formation of moisture. Keep the product between 25°C and 40°C. Do not expose to sunlight.

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