

PLANETELF PAG



Lubrication



Synthetic PAG type lubricant for car air conditioning

APPLICATIONS

Car air conditioning compressor

- Polyalkylene glycol lubricant, PAG, specially formulated for car air conditioning compressors using R134a as refrigerant.
- PLANETELF PAG 244 is a low viscosity PAG oil for variable displacement compressors, where SANDEN SP 10 is recommended.
- PLANETELF PAG 488 is a high viscosity PAG oil for fixed displacement compressors.
- PLANETELF PAG SP 20 (or SANDEN SP 20) is a high viscosity PAG oil for fixed displacement compressors allowing optimal operations of SANDEN compressors such as SD5H14, SD7B10, SD7H10, SD7H13, SD7H15/HD, SD7H15/SHD.

SPECIFICATIONS

O.E.M.'s

- PLANETELF PAG 488 is approved by GENERAL MOTORS (DELPHI GM HARRISSON) under the GM Material Specification n° 9985752.
- PLANETELF PAG SP 20 is approved by SANDEN under the specification SANDEN SP 20.

ADVANTAGES

Customer satisfaction guarantee

- PLANETELF PAG have good compatibility behaviour and miscibility with R134a refrigerant allowing optimal cooling of the air conditioning system, and compressor safety under heavy duty use.
- The 250cc cans are filled under nitrogen blanket guaranteeing a water content less than 0,05 %. Water (humidity in air) in the air conditioning system may cause severe damages in hoses and to the relief valve.

HANDLING

- Due to the high hygroscopic nature of PAG oils, their exposure to air must be minimized so as to avoid water absorption (store in a dry place, away from humidity, reduce handling time with the packaging open, avoid storing packaging when open)
- It is recommended to avoid contact with painted surfaces or plastics. In the event of contact, wash the surface with soap and water.

TYPICAL CHARACTERISTICS	METHODS	UNITS	PLANETELF PAG		
			244	488	SP 20
Color			Pale yellow	Blue	Pale yellow
Density at 20°C	ISO 3675		0.99	1.05	1.03
Viscosity at 40°C	ISO 3104	mm ² /s	53	130	100
Viscosity at 100°C	ISO 3104	mm ² /s	10	26	20
Pour point	ISO 3016	°C	- 48	- 44	- 46
Flash point (open cup)	ISO 2592	°C	268	204	204
Water content	Karl Fisher	%	0.05 max	0.05 max	0.05 max

Above characteristics are mean values given as an information.

TOTAL LUBRIFIANTS
Industrie & Spécialités
23-06-2010 (supersedes 25-06-2001)
PLANETELF PAG
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This lubricant used as recommended and for the application for which it has been designed does not present any particular risk.
A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial adviser or down loaded from www.quick-fds.com.