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Mavors ATF ST

Multipurpose **fully synthetic** lubricant for automatic transmissions of American, European and Asian cars.

PAKELO MAVORS ATF ST is a high performance, high technology multipurpose fully synthetic lubricant specifically developed for automatic transmissions of American, European and Asian cars.

The product has been developed to lubricate automatic transmissions (also with high number of gear ratios) traditionally designed with torque converter, friction discs and planetary gears.

It is known that modern vehicles put automatic transmission fluids under more and more severe conditions of stress and high temperatures.

This technology aims at avoiding problems caused both at low and high working temperatures and at maintaining the same performance and correct friction coefficient for longer periods.

PAKELO MAVORS ATF ST provides anti-oxidative, anti-rust, anti-corrosion and anti-foam properties. It also provides Very High Viscosity Index, very low Pour Point, high Flash Point and high chemical inertia towards rubber gaskets.

The product has excellent fluency at low temperatures and furthermore it shows excellent resistance to oxidation and sludge formation (especially at high operating temperatures).

This means that it can be used under high thermal excursion conditions.

PAKELO MAVORS ATF ST enables to increase considerably transmissions life in extreme climatic and working conditions.

PAKELO MAVORS ATF ST provides the following main properties:

- very high thermal-oxidative resistance and excellent fluency at low temperatures;
- superior EP and anti-wear properties for longer period if compared to traditional Automatic Transmission Fluids;
- excellent protection from corrosion;
- excellent anti-rust and antifoam characteristics;
- reduction of sludge and deposits thanks to high detergent and dispersant properties;
- correct friction coefficient for longer period if compared to traditional Automatic Transmission Fluids; this avoids vibration phenomena and allows correct gear shifting;
- very high shear stability even under high mechanical stresses: this keeps the viscosity properties of the lubricant similar to the starting conditions;
- longer oil drain intervals also in extreme working conditions;
- compatibility with gaskets.

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Application fields

PAKELO MAVORS ATF ST is a standard viscosity ATF lubricant suitable for use in latest generation automatic transmissions of cars and vans.

PAKELO MAVORS ATF ST, even if out of ordinary viscosity parameters, can also be used outside of vehicle warranty in automatic transmissions requiring low viscosity fluids such as: **Aisin Warner** AW-1 / JWS 3324 / NWS-9638, **Audi/Seat/Skoda/VW** G 055 005 / G 055 162 / G 055 540 / G 060 162, **BMW** 8322 0 142 516 / 8322 2 152 426, **Honda** DW-1, **Ford** Mercon® LV / Mercon® SP, **General Motors** DEXRON® VI, **Hyundai/Kia** SP-IV, **Jaso** 1A LV, **MB** 236.12 / 236.14 / 236.15 (MB 7 speed - **Daimler** NAG2), **Mitsubishi** ATF-J2 / SP-IV / SPH-IV / SP-IV RR, **Nissan/Renault** Matic -S, **Opel/Saab** 93 165 147, **Toyota** WS, **ZF** 6 / 8 / 9 speed, ATF 3353, M 1375.4, M 1375.5, M 1375.6, M 1375.8, M L12108, Lifeguardfluid 6 / 6 plus / 8 / 9.

PAKELO MAVORS ATF ST is not suitable when required Ford Type F fluid, CVT (Continuously Variable Transmission) fluids or DCT (Dual Clutch Transmission) fluids.

Performance

product **SUITABLE FOR USE** when the following performance are requested:

Aisin Warner JWS 3309 / JWS 3314 / JWS 3317 / JWS 3319 / NWS-6500,

Audi/Seat/Skoda/VW G 052 025 / G 055 025 / G 052 162 / G 052 990,

BMW 8322 9 407 765, 8322 9 407 807,

Chrysler AS68RC / ATF+ (7176) / ATF+2 (7176D) / ATF+3 (7176E) / ATF+4 (MS-9602),

Ford Mercon® V / Mercon® / FNR5

General Motors Dexron® II-D / Dexron® III(G) / Dexron® III(H),

Honda ATF Z-1,

Hyundai/Kia Red 1 / SP-II / SP III,

Jaso 1A,

Jatco Idemitsu K17,

Mazda ATF-M III / ATF-MV,

MB 236.10 / 236.11 (MB 5 speed - **Daimler** NAG1),

Mitsubishi Dia Queen ATF J3 / SP-II / SP III,

Nissan/Renault N402 / Matic -D / Matic -J / Matic -K,

Peugeot/Citroen AL-4 transmission,

Renault DP-0 transmission,

Subaru ATF / ATF HP,

Suzuki ATF 3314 / ATF 3317,

Toyota T / T-II / T-III / T-IV,

Volkswagen TL 52025 / TL 52162 / TL 52990,

Volvo 4-6 speed,

ZF 5 speed, **ZF** TE-ML 11A / 11B,

LT 71141, ATF 3403-M115, LA2634, ETL-7045E, ETL-8072B, Lifeguardfluid 5.

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Chemical-Physical Characteristics

Mavors ATF ST	Method analysis	Unit measure	Value
Density at 15°C	ASTM D1298	kg/l	0,849
Kinematic Viscosity at 40°C	ASTM D445	cSt	39,1
Kinematic Viscosity at 100°C	ASTM D445	cSt	7,1
Viscosity Index	ASTM D2270	-	145
Brookfield Viscosity at -40°C	ASTM D2983	cP	14.000
KRL Shear Stability (Stage C - 20 Hour) at 100°C	CEC L45T93	%(cSt/cSt)	< 7
Kinematic Viscosity at 100°C after KRL (Stage C)	CEC L45T93	cSt	6,7
Flash Point (C.O.C.)	ASTM D92	°C	> 220
Pour Point	ASTM D97	°C	< -42
Test FZG (A/8,3/90) Failure Load Stage	ASTM D2882	Stage	12

The data just above refer to average values and must not be understood as guaranteed characteristics.

This Technical Data Sheet has been carefully checked to guarantee complete and precise information. However, we do not take any responsibility in case of damages caused by any mistakes or omissions. Due to continual product research and development, the information contained herein is subject to change without notification.