SINOPEC
PERFORMANCE IN MOTION

Product Data Sheet

Product	**Sinopec ATF HD Automatic Transmission Fluid**
Summary	**Product description** Sinopec ATF HD Automatic Transmission Fluid is a multifunctional fluid formulated with high viscosity index base oils and selected additives. It is suitable for use in Multi-Vehicle automatic transmission, especially meets heavy duty vehicle requires.

Applications

Sinopec ATF HD Automatic Transmission Fluid is suitable for use in:

- Lubrication of automatic transmission, especially meets heavy duty vehicle requires.

Features and benefits

- Superior anti-shudder performance ensures smooth transmission making the vehicle more comfortable for the driver and passengers
- Excellent thermal and oxidation stability minimise the formation of deposits that could lead to component wear, and also ensure longer oil life.
- Excellent protection against rust and corrosion, effectively extending the service life of the automatic transmission
- Good compatibility with most common seals and elastomer materials used in AT, prolongs seal life and reduces leakage.

The information contained herein is subject to change without notification due to continuing research & development therefore properties may be subject to slight variations.

Typical data

Sinopec ATF HD Automatic Transmission Fluid

Property	Typical data	Test Method
Color	Red	ASTM D1500
Kinetic viscosity (100℃), mm^2/s	7.29	ASTM D 445
Low temperature viscosity（–20℃）, mPa.s	1000	ASTM D 2983
Low temperature viscosity（–40℃）, mPa.s	12100	ASTM D 2983
Flash point (COC), ℃	227	ASTM D 92

These data are given as an indication of typical values and not as exact specifications.

Industry and OEM specifications

Sinopec ATF HD Automatic Transmission Fluid has been formally approved

ZF	TE-ML 04D,TE-ML 14B,TE-ML 16L,TE-ML 16R,TE-ML 20B
Volvo	97341
Voith	H556336.XX（extended drain）（ongoing）
MAN	339Type L-1,V2,Z-2,Z-11（ongoing）
MB	236.6（ongoing）
JASO(self-certified)	JASO M315 1A

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meets the performance requirements of the following commercial vehicle specifications:

Allison	C-4, TES-389, TES-295
MAN	339Type L-1,V1,Z1,V2,Z-2,Z-11
MB	MB 236.1, 236.2, 236.3, 236.6,236.7, 236.9, 236.11, 236.81, 236.91
Voith	H556335.XX ,H556336.XX
Volvo	97340, 97341
ZF	TE-ML 03D,TE-ML 04D, TE-ML 05L,TE-ML 14B,TE-ML 16L,TE-ML 16R, TE-ML 17C,TE-ML 20B

meets the performance requirements of the following passenger vehicle specifications:

GM	DEXRON® VI, DEXRON®, DEXRON® II, IID, IIE, III, III F/G/H
Allison	C-3, C-4, TES 295, TES 389
American Motors	ATF +3 (SM7176-E, ATF+4 (MS9602)
Audi	5 HP LT 71141 (ZF 5 HP 18 FL, 19FL, 24A), 5 HP LT 71141 (G-052-162-A1, A2)
BMW	ETL-7045, 7045E (83 22 0 026 922), 7045E (3 series)
Caterpillar	Power Shift TO-2
Ford/Mazda	V (XT-9-QMM5, FNR 5)
Ford	MERCON® (XT-2-QDR, XT-2-QSM SYN),ESR-M2C-163-A2, MERCON® V
Honda	Z-1
Hyundai	NWS-9638, SP-II, SP-III, SP-IV, Apollo Red 1K, JWS 3314
Isuzu	Besco ATF II, ATF III, Genuine ATF
Jaguar	ATF 3403 M115, LT 71141, jlm 20238, 8342
Jeep	ATF+3, ATF+4
Kia	ATF Red 1, SP-II, SP-III, SP-IV, Apollo Red 1K
Mitsubishi	Diamond SP-II, SP-III, SP-IV, J2, J3, Dia, ATF PA
Opel	(All vehicles)
Toyota	WS
Volvo	97340, 97341, T IV (JWS 3309), 4-6 speed
VW	5 HP (ZF 5 HP 30)
ZF	TE-ML 11A and 11B

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Applications Requiring Low-Viscosity ATF*

Ford	MERCON® LV, MERCON® SP
GM	DEXRON® VI
Hyundai	NWS-9638
Toyota	WS
Mercedes-Benz	MB 236.14, MB 236.41
Mitsubishi	J2, J3

*The above applications specify low-viscosity ATF. Sinopec ATF HD may be used in these applications outside of warranty, but its viscosity may not meet the applicable specification or provide the fuel economy benefits of a low-viscosity ATF. Check applicable local regulations, including those in California.

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Accuracy of information

Data provided in this PDS is typical and subject to change as a result of continuing product research and development. The information given was correct at the time of printing. The typical values given are subject to variations in the testing procedures and the manufacturing process may also result in slight variations. Sinopec guarantees that its lubricants meet any industry and OEM specifications referred to on this data sheet.

Sinopec cannot be held responsible for any deterioration in the product due to incorrect storage or handling. Information on best practice is available from your local distributor.

Product and environmental safety

This product should not cause any health problems when used in the applications suggested and when the guidance provided in the Material Safety Data Sheet (MSDS) is followed. Please consult the MSDS for more detailed advice on handling; MSDSs are available from your local distributor. Do not use the product in applications other than those suggested.

As with all products, please take care to avoid environmental contamination when disposing of this product. Used oil should be sent for reclamation/recycling or, if not possible, must be disposed of according to relevant government/authority regulations.

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