

Product	<b>Sinopec ATF HD S Automatic Transmission Fluid</b>
Summary	<b>Product description</b> Sinopec ATF HD S Automatic Transmission Fluid is a multifunctional fluid formulated with hydrogenated high viscosity index base oils and selected additives. It is suitable for use in Multi-Vehicle automatic transmission, especially heavy duty vehicles.

## Applications

Sinopec ATF HD S Automatic Transmission Fluid is suitable for:

- Lubrication of automatic transmission, especially of heavy duty vehicles.

## 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 minimises the formation of deposits and also ensures 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.

# Product Data Sheet

## Typical data

Sinopec ATF HD S Automatic Transmission Fluid		
Property	Typical data	Test Method
Colour	Red	ASTM D 1500
Kinetic viscosity (100°C), mm <sup>2</sup> /s	7.21	ASTM D 445
Low temperature viscosity (−20°C) , mPa.s	1120	ASTM D 2983
Low temperature viscosity (−40°C) , mPa.s	12000	ASTM D 2983
Flash point (COC), °C	204	ASTM D 92

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

## Industry and OEM specifications

Sinopec ATF HD S Automatic Transmission Fluid holds the following approvals:	
ZF	TE-ML 04D,TE-ML 14B,TE-ML 16L,TE-ML 16R,TE-ML 20B
Volvo	97341
Voith	H556336.XX (extended drain)
JASO(self-certified)	JASO M315 1A
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 IID, IIIG, IIH
Ford	MERCON V , FNR5
Aisin	JWS 3309 (T-IV) , AW-1 (Low Viscosity)
Toyota	T, T-II, T-III, T-IV, (Low Viscosity: WS, JWS3324)
Honda	ATF Z-1, DW-1 (Low Viscosity ,except in CVTs)
Mazda	ATF M-III, M-V
Mitsubishi	ATF-J2/Diaqueen J2, (Low Viscosity: J3, SP-IV)
Hyundai/Kia	SP-II,SP-III, JWS3314, JWS3317, (Low Viscosity: SP-VI, SPH-IV, SP-IVRR, SP4-M, NWS-9638)
Kia	Red-1
Subaru	ATF, ATF-HP
Suzuki	3314, 3317
Audi/VW	G052 162, G052 990, G 055 025 (Low Viscosity: G 055 005, G 055 162, G055 540)
BMW	BMW 7045E(3 series), BMW 5 Series, LA2534, LT71141, BMW83220142516(Low Viscosity)
Nissan	Nissan 402, Matic-D, J, K, (Low Viscosity: Matic-S, W)
MB	MB 236.1, 236.2, 236.3, 236.6, 236.7, 236.9, 236.11, 236.81, 236.91, 236.10(NAG1/shell 3403), (Low viscosity: MB 236.12, 236.14)
ZF	TE-ML 09, 11(3/4/5speed), ZF 6speed(Low viscosity)
PSA	PSA AL-4
Renault	Renault DP-0
Volvo	Volvo 4speed ( P/N 1161621 ) , P/N 1161540/1161640+, (Low viscosity: P/N 31256774 or P/N31256675)
Others	Idemitsu K17(JATCO), Texaco N402(JATCO), ETL-7045E(BMW 7045E), ETL-8072B(BMW 5 Series)

## 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

# Product Data Sheet

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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