SINOPEC
PERFORMANCE IN MOTION

Product Data Sheet

Product	**SINOPEC Fully Synthetic ATF HD S Automatic Transmission Fluid**
Summary	**Product description** SINOPEC Fully Synthetic ATF HD S automatic transmission fluid is a multifunctional fluid formulated totally with Poly-alpha-olefin (PAO) base stock and super multi-functional additives. Its superior anti-shudder performance makes frequent shifting smooth and possible on normally working AT. It is suitable for use in Multi-Vehicle automatic transmission, especially heavy duty vehicles.

Applications

SINOPEC Fully Synthetic ATF HD S Automatic Transmission Fluid is suitable for:

- Lubrication of Automatic transmission, especially of buses, trucks, special vehicles, and passenger cars.
- ZF Ecomat / EcoLife and Voith DIWA Automatic transmissions.

Features and benefits

- Superior anti-shudder performance ensures smooth shifts making vehicles more comfortable for drivers and passengers.
- Excellent fluidity properties at cold starts combined with balanced friction characteristics provide smoother and easier shift.
- Protecting critical hydraulic pump components and preventing oil leakage.
- Excellent thermal and oxidation stability minimises the formation of deposits and also ensures longer oil life.
- Excellent cleanliness to enhance lubrication and equipment life.
- Good compatibility with most common seals and elastomer materials used in AT, prolongs seal life and reduces leakage and lubricant loss, thus minimizing maintenance cost.

Typical data

SINOPEC Fully Synthetic ATF HD S Automatic Transmission Fluid		
Property	Typical data	Test Method
Colour	Red	ASTM D 1500
Kinematic viscosity cSt @ 100°C cSt @ 40°C	 7.6 36.45	ASTM D 445
Brookfield viscosity, cP @ –40°C	7510	ASTM D 2983
Pour point, °C	–50	ASTM D 97
Density @ 20°C, kg/m^3	0.838	ASTM D 4052

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

Industry and OEM specification

SINOPEC Fully Synthetic ATF HD S Automatic Transmission Fluid holds the following approvals:	
ZF	TE-ML 04D, **TE-ML 14C, TE-ML 16M, TE-ML 16S, TE-ML 20C, TE-ML 25C**
Voith	H556336.XX（extended drain interval）
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, Z1, Z2, **Z3,** Z1, **Z12**, V1, V2
MB	MB 236.1, 236.2, 236.3, 236.6, 236.7, **236.8**, 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 14C**,**TE-ML 16M, TE-ML 16S**, TE-ML 17C, TE-ML 20B, **TE-ML 20C**, TE-ML 25B, **TE-ML 25C**
meets the performance requirements of the following passenger vehicle specifications:	
GM	DEXRON IID, IIIG, IIIH
Ford	MERCON V, FNR5
Aisin	JWS 3309 (T-IV); Low Viscosity: AW-1
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, JWS 3314, JWS 3317; Low Viscosity: SP-VI, SPH-IV, SP-IVRR, SP4-M, NWS-9638
Kia	Red-1
Subaru	ATF, ATF-HP
Suzuki	3314, 3317
Audi/VW	G 052 162, G 052 990, G 055 025; Low Viscosity: G 055 005, G 055 162, G 055 540
BMW	BMW 7045E (3 series), BMW 5 Series, LA2534, LT71141, Low Viscosity: BMW 83 22 014 25 16
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, 236.10(NAG 1/shell 3403); Low viscosity: MB 236.12, 236.14
ZF	TE-ML 09, 11(3/4/5speed), Low viscosity: ZF 6speed
PSA	PSA AL-4
Renault	Renault DP-0
Volvo	Volvo 4 speed (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 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.

Issued: May 2020