



PRODUCT DATA SHEET

Havens ATF WS

DESCRIPTION

Havens ATF WS is a special synthetic hydraulic liquid for Toyota transmissions with the control of speeds slide. Thoroughly selected additives and synthetic components provide the best friction properties when gear changing, perfect low-temperature properties, high anti-oxigenic and chemical stability during the whole operation cycle.

PROPERTIES

- Smooth transmission and perfect synchronization
- Longer retention of frictional characteristics under continual severe operating conditions
- Protection against deposit formation and evaporation losses at high operating temperatures
- Excellent low temperature operation, ensuring prompt circulation of fluid
- Good protection, against wear, resistance to rust, corrosion and foam
- Compatible with seal materials used in transmission units
- Lower maintenance costs, and improved operating profit

APPLICATIONS

For most of the 5- and 6-stepped automatic transmissions used in Toyota cars since 2005.

PERFORMANCE LEVEL

Meets and exceeds:

AISIN WARNER ; BMW 4 and 5 speed European ; CHRYSLER ATF +3 / 4 ; MAN 339 ; Type Z-1 ; MB 4 and speed European ; TOYOTA T-III / T-IV / WS Lifetime ; VOITH ATs 55.6335 ; VW 4 and 5 speed European.

TYPICAL PROPERTIES

PARAMETERS	TEST METHOD	UNIT	HAVENS ATF WS
Viscosity Grade			-
Density @ 15°C, kg/l	ASTM D1298	kg/l	0.846
Viscosity @ 100°C, cSt	ASTM D445	cSt	7,05
Viscosity @ 40°C, cSt	ASTM D445	cSt	34,5
Viscosity Index (min)	ASTM D2270	-	172
Brookfield Viscosity @-40 °C, cP	ASTM D2983	cP	13,100
Pour Point, °C	ASTM D97	°C	-45
Flash Point, °C	ASTM D92	°C	216

The values shown above are typical values at the date of publication. Havens Lubricants reserves the right to change these typical values without prior notice

HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point. For further Information on Safety Guidelines please refer to MSDS available on our website www.havenslubricants.com.