

Automatic Transmission Fluid (ATF)

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Method	Test Description	Sample Size
• ASTM D92	Flash Point and Fire Point, Cleveland Open Cup	250 mL
• ASTM D97	Pour Point	100 mL
• ASTM D130	Copper Strip Corrosion	100 mL
ASTM D287	API Gravity of Crude Petroleum / Petroleum Products (Hydrometer)	250 mL
• ASTM D445	Kinematic Viscosity, 40°C or 100°C, New Oil	125 mL
• ASTM D445	Kinematic Viscosity, 0°C and Above	125 mL
• ASTM D445	Kinematic Viscosity, Below 0°C	125 mL
• ASTM D664	Acid Number	50 mL
ASTM D665	Rust Prevention 4 Hours (Method A or B)	1 L
ASTM D665	Rust Prevention 24 Hours (Method A or B)	1 L
• ASTM D892	Foaming, Sequence I - III (Specify Option A if Required)	1 L
• ASTM D892 & D6082	Foaming, Sequence I - IV (Specify Option A if Required)	1 L
ASTM D974	Acid Number	50 mL
ASTM D974	Base Number	50 mL
ASTM D1500	Color	150 mL
ASTM D1748	Rust Protection by Humidity Cabinet	1 L
• ASTM D2270	Viscosity Index (Includes D445 at 40°C and 100°C)	125 mL
ASTM D2369	Volatile Organic Content (VOC)	10 mL
ASTM D2622	Sulfur by XRF - Wavelength Dispersive	30 mL
• ASTM D2896	Base Number	50 mL
• ASTM D2983	Brookfield Viscosity, +20°C to -60°C (Per Temperature)	60 mL
ASTM D3233	Falex Extreme Pressure	200 mL
ASTM D4052	Specific Gravity (Includes API Gravity)	50 mL
• ASTM D4172	Four Ball Wear	100 mL
• ASTM D4683	High Temperature High Shear / TBS Viscosity, 150°C, New Oil	150 mL
ASTM D4927	Sulfur Content for Automatic Transmission Fluid by XRF	30 mL
• ASTM D4951	Elemental Analysis by Inductively Coupled Plasma, Wear Metals	10 mL
ASTM D5183	Coefficient of Friction by Four Ball	100 mL
• ASTM D5185	Elemental Analysis by Inductively Coupled Plasma (No S)	10 mL
• ASTM D5185	Sulfur by Elemental Analysis by Inductively Coupled Plasma	10 mL
• ASTM D5293	Cold Cranking Simulator (Single Temperature)	120 mL
• ASTM D5800	Noack Volatility	150 mL
ASTM D5800 Mod.	Noack Volatility, 150°C for 12 Hours	150 mL
• ASTM D6304	Water by Karl Fischer	100 mL
• ASTM D6417	Simulated Distillation by Gas Chromatography	10 mL
ASTM D6443	Chlorine by XRF	30 mL
ASTM D6793	Bulk Modulus, Up to 80°C	200 mL
ASTM E1269 & E1133	Specific Heat and TGA for Fluids	100 mL
• CEC L-45-99 Mod. & D445	KRL Shear 20 Hours + 1 Temperature pre & post shear KV	100 mL
EPA Test 24	Volatile Organic Content (VOC)	10 mL
FTM 203C	Stable Pour Point	200 mL

Tests required to qualify for ATF specifications can vary by OEM. These are bench tests that may be required, review the specification according to your specific situation. Testing with Savant Labs is not a substitute for the licensing process or in any way an implied endorsement or a licensing submission.



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