

# Atom AC-9220

## MULTIPURPOSE ATF ADDITIVE PACKAGE.

**AC-9220** is a versatile, low ash automatic transmission fluid additive package designed to meet the performance standards of pre-2006 General Motors, Ford, and Allison transmissions (excluding Ford Type F). It offers exceptional thermal and oxidative stability, protection against corrosion and wear, anti-shudder durability, optimized friction properties, and effective sludge and deposit prevention. AC-9220 is suitable for legacy GM DEXRON® IIIG/H and Ford MERCON® performance levels and can also be utilized at a lower treatment rate for applications meeting 'Type A Suffix A' (TASA) fluids and DEXRON II D/E®. For specific recommendations, please contact your Atom Chemicals representative.

*DEXRON® is a registered trademark of General Motors Corporation. MERCON® is a registered trademark of Ford Motor Company.*

### APPLICATIONS

Multipurpose ATF Additive Package

**DEXRON® IIIG/H**

**DEXRON® IIE**

**DEXRON® IID**

### RECOMMENDED DOSAGE

8.3 wt.% (7.8 vol.%) with suitable base stocks to formulate an automatic transmission fluid. This recommendation is based on Group II N150 base oil and produces an automatic transmission fluid suitable for use in Allison C4 applications, and any other application calling for use of DEXRON IIIG/H or MERCON quality ATF.

Chemical		
Phosphorus, mass/wt%	ASTM D 4951	0.1037
Nitrogen, mass/wt%	ASTM D 5291	0.715
Physical		
Specific Gravity, at 15°C	ASTM D 4052	0.9213
Viscosity, mm <sup>2</sup> /s (cSt) at 40°C	ASTM D 445	3100
Viscosity, mm <sup>2</sup> /s (cSt) at 100°C	ASTM D 445	290
Flash (P-MCC), min, °C,(°F)	ASTM D 3828-02	85 (185)

### AC-9220 Suitable for Use Recommendations

Allison C-4 Fluids	<div>Weight Treat 8.3 wt%</div> <div>Volume Treat 7.8%</div>
Allison TES, 389	
Caterpillar TO-2 Fluids	
Chrysler transmissions prior to Chrysler MS-9602 or MS-7176	
Ford MERCON® Ford M2C138-CJ, M2C 166-H Fluids	
GM DEXRON® III-H, III-G, III-F, III-E, III-D	
MAN 339 Z1 and V1, Z2 and V2	
MB 236.1, 236.5, 236.6, 236.7, 236.9	
Voith 55,6335 and 55,6336	
Volvo 97340, 97341	
ZF TE-ML 02F, 03D, 04D, 09, 11A/B, 14A/B, 16L, 17C	
Power Steering Units - Only where transmission fluids are acceptable for power steering units; check owners' manual	

**Weight Treat 7.7 wt% Volume Treat 6.8%**

DEXRON® IIE  
DEXRON® IID

**Weight Treat 6.0 wt% Volume Treat 5.3%**

DEXRON® II

The DEXRON II formulas require appropriate base stocks and may require a higher base oil viscosity or additional shear stable VII to maintain target kinematic viscosity and meet Brookfield viscosity requirements at -40C. Check all isometrics. If lower temperature properties are required, increase treat rate of additive or add shear stable viscosity index improver and adjust base oil viscosity. Drain intervals may be reduced with lower treat rates and base oil quality.

**Weight Treat 4.0 wt% Volume Treat 3.6%**

Type A Suffix A

Using a 64/36 ratio of 4 cSt and 12 cSt GPll base oils delivered a fluid with a kinematic viscosity of 7.4 cSt, and a Brookfield viscosity at -40°C of under 50,000 cP (the max for TASA is 60,000 cP).

**HANDLING INFORMATION**

Please refer to the corresponding material safety data sheet for handling and blending precautions and maximum recommended temperatures

Long-term storage, max, °C (°F) 45 (113)

Suggested Blending, °C (°F) 30 (86)

Mechanical Blending, max, °C (°F) 70 (158)

Holding the material at more than the recommended temperature may cause separation or chemical degradation. If product has been stored below its pour point temperature it should be heated to 21°C (70°F) before using.)

**SAFETY INFORMATION**

For more extensive information on the safe handling and use of this product, see the Safety Data Sheet.

**SHIPPING INFORMATION**

Isotainer

Steel Drum 200KG

