

MAK AUTRAN II

High performance fluid for automatic transmissions and hydraulic power steering

MAK Autran II is a high performance heavy duty automatic transmission and power steering fluid. It is formulated from high viscosity index hydro-finished base stocks and advanced additive system. This oil is developed for use in spur, helical and planetary gears of automatic transmission. Multifunctional shear-stable additives impart excellent thermo-oxidative stability, low temperature flow characteristics along with antiwear and anticorrosion properties. Superior viscosity control offers smooth and efficient operation with minimal power loss. MAK Autran II is highly compatible with seal materials normally specified for use in automatic transmissions and power steering systems with mineral oils.

Applications:

MAK Autran II is recommended for automatic transmission and hydraulic power steering systems of new generation passenger cars. It is suitable for heavy duty automatic transmission and power steering units of commercial vehicles, heavy trucks and earth moving equipment requiring DEXRON IID fluid. It can also be used in certain off-road applications as hydraulic fluid.

Performance/ Benefits:

Excellent Thermo-Oxidative Stability – outstanding resistance to the effects of oxidising agents. Extends gear and bearing life due to minimal deposits and longer seal life. Ensures reliability of system, longer drain period and less maintenance.

Antiwear Capability – offers excellent protection against wear and enhances component life. Provides increased load carrying capability thereby reducing operating cost.

Excellent Rust and Corrosion Protection – enhances gear system life, reduces wear and maintenance cost.

Friction Retention and Shear Stability – retains friction characteristics even after a long operating interval thus offering efficient operation of automatic transmission. Shear stability offers superior viscosity control and the product stays ‘in grade’ for a longer period and in turn the system operates almost at the designed efficiency.

Performance Level/ Specification:

- General Motors DEXRON IID
- Ford MERCON

Typical Physico-Chemical Data: MAK Autran II

Characteristics	Method	Value
Colour	Visual	Red
Appearance	Visual	Clear and Bright
Density @15°C, g/cc	ASTM D1298	0.8711
Kinematic Viscosity @40°C, cSt	ASTM D445	35.2
Kinematic Viscosity @100°C, cSt	ASTM D445	7.2
Viscosity Index	ASTM D2270	174
Copper Corrosion, 100°C, 3 hrs.	ASTM D130	1a
Flash Point, °C	ASTM D92	224
Pour Point, °C	ASTM D97	-42
Foaming Tendency	ASTM D892	
a) Sequence I		NIL/ NIL
b) Sequence II		10/ NIL
c) Sequence III		NIL/ NIL

Storage & Handling:

The product should be stored inside. Keep it properly sealed to avoid contamination. Avoid freezing. Shelf life is 5 yrs. under protected storage conditions.

Health & Safety:

It is unlikely to be hazardous when properly used in recommended applications. Contamination of the fluid from other oils, greases, chemicals, dirty water etc. can occur during the use. It should be avoided. Regular monitoring of the in-use product is recommended.