

# MAK ATF – A

Automatic transmission and hydraulic fluid of Type A Suffix A quality

MAK ATF-A is a superior quality automatic transmission and power steering fluid. It is formulated from high viscosity index base stocks and advanced additive system. This oil is developed for use in spur, helical and bevel 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 ATF-A is highly compatible with seal materials normally specified for use in automotive gear systems with mineral oils.

### Applications:

MAK ATF-A is recommended for automatic transmission and power steering systems of heavy trucks, earth moving equipment and older passenger cars. It is suited for synchromesh manual transmission systems of automobiles. It can also be used in powershift and torque converters and other applications requiring GM Type A suffix A performance fluid. Certain off-road applications use this fluid as hydraulic fluid also.

### 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. 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 design efficiency.

### Performance Level/ Specification:

- General Motors Type A Suffix A
- General Motors DEXRON I and IB
- General Motors Allison C-2

### Typical Physico-Chemical Data: MAK ATF – A

| Characteristics                 | Method     | Value            |
|---------------------------------|------------|------------------|
| Colour                          | Visual     | Red              |
| Appearance                      | Visual     | Clear and Bright |
| Density @15°C, g/cc             | ASTM D1298 | 0.8782           |
| Kinematic Viscosity @40°C, cSt  | ASTM D445  | 39.8             |
| Kinematic Viscosity @100°C, cSt | ASTM D445  | 7.5              |
| Viscosity Index                 | ASTM D2270 | 158              |
| Copper Corrosion, 100°C, 3 hrs. | ASTM D130  | 1a               |
| Flash Point, °C                 | ASTM D92   | 205              |
| 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 coolant 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.