



Previous Name: Shell Donax TF

Shell Spirax S1 ATF Type F

Quality Type F Automatic Transmission and Hydraulic Fluid

Shell Spirax S1 ATF Type F is a quality automatic transmission fluid, specially formulated to meet the lubrication requirements of specific automatic transmission units, power steering systems and hydraulic systems. It is based on a blend of high viscosity index oils and proven additives, to provide protection in units requiring a non-friction modified type fluid.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Non-friction modified formulation**
Reduced clutch and brake fluid slippage, as required in automatic transmissions calling for an oil meeting the Ford specification ESW-M2C33-G.
- **Specially formulated for ATF transmissions**
Consistent, reliable, smooth and trouble-free operation.
- **High oxidation resistance**
Resistant to oil degradation in all operating conditions.
- **Excellent shear-stability**
A special 'VI' improver minimises the variation of viscosity with changes in operating temperature, thus ensuring excellent lubrication performance.
- **Dependable anti-wear and gear protection**
Long component life.

Main Applications



- Automatic transmission systems requiring a fluid of this type
- Off-road construction and agricultural hydraulic systems
- Industrial hydraulic systems and air compressors
- Power steering units

Specifications, Approvals & Recommendations

- Ford SQM-2C 9007-AA Recommended
- Ford (service fill) M2C-33F, -33G
- Borg Warner Recommended for some units (for initial-fill, service-fill and top-up)

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

Typical Physical Characteristics

| Properties | | | Method | Shell Spirax S1 ATF Type F |
|---------------------|--------|--------------------|-----------|----------------------------|
| Kinematic Viscosity | @40°C | mm ² /s | ISO 3104 | 39.9 |
| Kinematic Viscosity | @100°C | mm ² /s | ISO 3104 | 8.4 |
| Viscosity Index | | | ISO 2909 | 180 |
| Density | @15°C | kg/m ³ | ISO 12185 | 876 |
| Flash Point (COC) | | °C | ISO 2592 | 180 |
| Pour Point | | °C | ISO 3016 | -42 |

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

Health, Safety & Environment

- **Health and Safety**
Shell Spirax S1 ATF Type F is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from <http://www.epc.shell.com/>

- **Protect the Environment**

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

Additional Information

- **Advice**

Advice on applications not covered here may be obtained from your Shell representative.