Technical Data Sheet

- Wide vehicle coverage
- Exceptional performance

# Shell **Spirax** *S6 ATF X*

***Premium lower viscosity multi-vehicle ATF***

Premium, Synthetic Technology Multi-Vehicle Automatic Transmission Fluid for Lower Viscosity ATF Requirements in General Motors, Ford, and many other cars and trucks.
Premium performance, synthetic technology fluid designed to meet the needs of multiple vehicle types for service fill in automatic transmission service. Shell Spirax S6 ATF X meets the needs of many Japanese, Asian, European, and North American designed automatic transmissions that require low viscosity automatic transmission fluid such as GM DEXRON® -VI, Ford MERCON LV and Toyota WS.

## DESIGNED TO MEET CHALLENGES

### Performance, Features & Benefits

- **Friction modified**
  Provides consistent, reliable, smooth, and trouble free operation of automotive transmission systems.
- **Exceptionally high oxidation resistance**
  Resistant to oil degradation and keeps automatic transmissions clean. Maintains performance and provides long service life in transmissions.
- **Excellent shear-stability**
  A special 'VI' improver minimises the changes in viscosity with operating temperature and viscosity loss with use. This provides a constant viscosity to the current vehicles as well as provides the stability needed in many older vehicles.
- **Dependable anti-wear and gear protection**
  Long component life and protection of gears as vehicles age.
- **Seal Swell**
  Contains seal swell agents to maintain seals that have aged for proper performance in transmissions that are seeing their first or even second or more ATF changes.
- **Low temperature performance**
  Excellent oil fluidity at low temperatures helps provide proper shift feel and operation at first start up and when cold.

### Main Applications



- **Passenger car automatic transmissions**
- **Commercial vehicle transmissions and hydraulics**
- **Power steering units**

### Specifications, Approvals & Recommendations

Exceeds the requirements of the following industry specifications:

- Ford MERCON® LV (MLV250901, MLV250909, MLV250911, MLV250917, MLV250918, MLV260704)
- General Motors DEXRON® -VI ( Licence Number T60GFE800 ) and all earlier General Motors ATF passenger car requirements.
- JASO 1-A-LV
- Suitable for use in most Japanese and Asian automatic transmissions service fill, Toyota T-IV/WS, Nissan Matic C/D/J/K/S, Honda ATF Z-1/DW-1, Mitsubishi/Hyundai/Kia SP- II/III/IV/IV M/IV RR, Mitsubishi ATF MA-1 (SFU), Mazda, Suzuki, Subaru, Isuzu, Aisin Warner JWS 3309/3324, Allison C-4, Volvo CE 97340, Mini, some BMW, Saab, some Porsche, some Fiat and some Jaguar, Mercedes-Benz ATFs 236.1 to 236.10
- Also suitable for use where BMW ATF 2 is required.
- Not to be used: Continuous Variable Transmissions (CVTs), Dual-Clutch Transmissions (DCTs), Type F, newer Daimler transmission (ATF 134 or later MB 236.12, 236.14, 236.15, or 236.16)

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

## Typical Physical Characteristics

| Properties | | | Method | Shell Spirax S6 ATF X |
|---|---|---|---|---|
| **Density** | @15°C | Kg/m³ | ASTM D1298 | 850 |
| **Flash Point (COC)** | | °C | ASTM D92 | 190 |
| **Pour Point** | | °C | ASTM D97 | -54 |
| **Viscosity** | @-40°C | mPa.s | ASTM D2983 | 10 000 |
| **Kinematic Viscosity** | @100°C | mm²/s | ASTM D445 | 6.2 |

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 S6 ATF X 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 Safety Data Sheet, which can be obtained from https://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

### Application Table

Shell Spirax S6 ATF X is suitable for use in the following:

| Manufacturer | Fluid Specification | | Manufacturer | Fluid Specification |
|---|---|---|---|---|
| Acura | ATF-Z1 | | LAND ROVER | LR023288 |
| Aisin Warner | JWS 3309 | | LEXUS | JWS 3309 |
| Aisin Warner | JWS 3321 | | MAN | 339A |
| Aisin Warner | AW-1 | | Mazda | Mazda ATF D-II |
| American Motors | ATF+3 | | Mazda | Mazda ATF M-III |
| ATF | RED1 RED1K | | Mazda | Mazda ATF M-V |
| Audi/VW | 5 HP LT71141 | | Mazda | Mazda ATF FZ |
| Audi/VW | G 052 025-A2 | | Mazda | Mazda ATF F-1 |
| Audi/VW | G 053 025-A2 | | Mazda | Mazda ATF S-1 |
| Audi/VW | G 052 162-A1/A2 | | Mazda | Mazda ATF N-1 |
| Audi/VW | VW G 055 025 A2 (JWS 3309) | | Mazda | MAZDA ATF 3317 |
| Audi/VW | G 052 162 | | Mercedes Benz | 236.1 through to 236.10 |
| Audi/VW | G 060 162 | | Mercedes Benz | MB ZF 4HP20 |
| Audi/VW | G 055 162-A2, -A6 | | MINI | R T-IV |
| Audi/VW | G 052 990 | | Mitsubishi | Diaqueen SK |
| Audi/VW | G 055 540 (A2) | | Mitsubishi | Diaqueen SP-II |
| Audi/VW | 052 055 | | Mitsubishi | Diaqueen SP-III |
| Bentley | PY112995PA | | Mitsubishi | SP-IV |
| BMW | JWS 3309 (T-IV) | | Mitsubishi | Diaqueen AW |
| BMW | LA2634 | | Mitsubishi | Diaqueen J2 |
| BMW | LT71141 (ZF 5 HP 18FL/19FL/24A) | | Mitsubishi | Diaqueen J3 |
| BMW | 7045E | | Mitsubishi | Diaqueen ATF-MA1 |
| BMW | ETL 8072B | | Mitsubishi | Diaqueen ATF PA |
| BMW | ZF 5HP18FL, 5HP24, 5HP30 | | NAG 1 (Chrysler, Jeep, Cherokee) | NAG 1 (Chrysler, Jeep, Cherokee) |
| BMW | MINI | | Nissan | Nissan Matic Fluid C |

| Manufacturer | Fluid Specification | | Manufacturer | Fluid Specification |
|---|---|---|---|---|
| BOSCH | TE-ML 09 | | Nissan | Nissan Matic Fluid D |
| CAT | TO-2 | | Nissan | Nissan Matic Fluid J |
| Chrysler | ATF+ | | Nissan | Nissan Matic Fluid K |
| Chrysler | ATF+2 | | Nissan | Nissan Matic Fluid S |
| Chrysler | ATF+3 (MS7176E) | | Opel/GM | 19 40 700 |
| Chrysler/Dodge/Jeep | 05127382AA | | Opel/GM | 19 40 767 |
| Chrysler/Dodge/Jeep | 68043742AA | | Opel/GM | 21005966 Transaxle |
| Chrysler/Dodge/Jeep | 68157995AA | | Opel/GM | 22 17466 |
| Chrysler/Dodge/Jeep | 68157995AB | | Opel/GM | 88900925 |
| Chrysler/Dodge/Jeep | 68218925AA | | Opel/GM | 9986195 |
| Chrysler/Dodge/Jeep | 68171866AA | | Peugeot | ZF 4HP20 |
| Daewoo | Daewoo LT 71141 | | Peugeot/Citreon | Z 000169756 |
| Daihatsu | AMMIX ATF D-II | | Peugeot/Citreon | AL4 Automatic gearbox oil (#9730.AE) |
| Daihatsu A | AMMIX ATF D-III SP | | Porsche | Porsche ZF 5HP19FL, ZF 5HP20, LT71141 |
| Esso | LT 71141 | | Porsche | Porsche ATF 3403-M115, |
| FIAT | FIAT T-IV type, JWS 3309 | | Porsche | Porsche T-IV (JWS 3309) |
| FIAT | JWS 3309 | | Porsche | Porsche 000 043 205 09 |
| Ford | Ford MERCON® | | Porsche | Porsche 999 917 547 00 (A2) |
| Ford | Ford MERCON® LV (FF-WSS-M2C-938A/SF, XT-10 QLV) | | Porsche | Porsche 000 043 205 28 |
| Ford | WSS M2C 138CJ, 166H | | Porsche | Porsche Z 000169756 |
| Ford | WSS M2C 922A1, 924A (XT-8-QAW) JWS 3309 | | Renault | Renault DPO/AL4 |
| Ford/Lincoln/Mercury | Ford/Lincoln/Mercury XT-2-QDX (M) | | Renault | Renault Matic D2 |
| Ford/Lincoln/Mercury | Ford/Lincoln/Mercury XT-2-QSM (Syn) | | Renault | SATF-D |
| Ford | Ford ESP-M2C166H, XL-12 | | Saab | Saab T-IV (JWS 3309) |
| Fuso | ATF-II | | Saab | Saab 93 165 147 |
| Fuso | ATF-SPIII | | Saab | Saab 93 160 393 |
| Fuso | ATF-A4 | | Saturn | Saturn T-IV (JWS 3309) |
| GM | 9986195 | | Scion (all vehicles) | Scion (all vehicles) |
| GM | TASA | | Shell | Shell 3403, M115, LA 2634 |
| GM | DEXRON® -II | | Shell | Shell L 12108 |
| GM | DEXRON® -IID | | Ssang yong | Ssang yong DSIH 5M-66 |
| GM | DEXRON® -IIE | | Subaru | Subaru ATF |
| GM | DEXRON® -IIIG | | Subaru | Subaru K0140Y0700 |
| GM | DEXRON® -IIIH | | Subaru | Subaru ATF 5AT |
| GM | DEXRON® -VI | | Subaru | Subaru DEXRON® -II |
| GM | 1940700 | | Subaru | Subaru ATF, ATF HP |
| GM | 1940767 | | Suzuki | Suzuki ATF AW-1 |
| GM | 21005966 | | Suzuki | Suzuki AT OIL 5D06 |
| GM | 22717466 | | Suzuki | Suzuki ATF 2326 |
| GM | 88900925 | | Suzuki | Suzuki ATF 2384K |
| GM | 9986195 | | Suzuki | Suzuki JWS 3309 |
| GM | 93160393 | | Suzuki | Suzuki ATF 3314 |
| GM/GMC/Opel/Saturn | AW1 | | Suzuki | Suzuki ATF 3317 |
| GM/GMC/Opel/Saturn | VI | | Texaco | Texaco 7045-E |
| GM/GMC/Opel/Saturn | 88863400 | | Texaco | Texaco 8072B |
| GM/GMC/Opel/Saturn | 88863401 | | Texaco | Texaco N402 |
| Hino | Hino Blue ribon ATF | | Toyota | Toyota ATF D-II |
| Honda | ATF-Z1 (except in CVTs) | | Toyota | Toyota ATF D-III |
| Honda | ATF Ultra II | | Toyota | Toyota ATF T-III |
| Honda | DW-1 | | Toyota | Toyota ATF T-IV |
| Honda | Type 3.0 | | Toyota | Toyota ATF WS |
| Honda | Type 3.1 | | Toyota | Toyota Hybrid |
| Hyundai/Kia | SP-IV (00232-1904/04500-00115) | | Vickers | Vickers M2950-S, I-286-S |
| Hyundai/Kia | SP-IV M (SP4-M) | | Voith | Voith 55.6335.xx (G607) |
| Hyundai/Kia | SPH-IV | | Voith | Voith Svc Bltn #013 and #118 |
| Hyundai/Kia | SP-IV-RR | | Volvo | Volvo 97325 |
| Hyundai/Kia | SP-III | | Volvo | Volvo 97335 |
| Hyundai/Kia | Dex-II/ SP-II | | Volvo | Volvo CE 97340 |

| Manufacturer | Fluid Specification | | Manufacturer | Fluid Specification |
|---|---|---|---|---|
| Hyundai/Kia | JWS 3314 | | Volvo | Volvo PN 1161521 |
| Hyundai/Kia | NWS 9638 | | Volvo | Volvo PN 1161540/1161640 |
| Hyundai/Kia | 040000C90SG | | Volvo | Volvo PN 31256774/31256675 |
| Hyundai/Kia | NUMM040 CH20 Red-1 | | Volvo | Volvo PN 1161621 |
| ISUZU | ATF-II | | VW | VW 5 HP (ZF 5 HP 30) |
| ISUZU | ATF-III | | VW | VW 5HP (18FL, 30) |
| ISUZU | ATF SP | | VW | VW 5HP (19FL, 24A) |
| ISUZU | SCS Fluid | | VW | VW G-055-025 A2 (JWS 3309) |
| ISUZU | 08200-9001 | | VW | VW G055 540 (A2) |
| Jaguar | ATF 3403 M115 | | VW | VW G 052 162 |
| Jaguar | ATF LT71141 | | VW | VW G 055 162-A2, -A6 |
| Jaguar | JLM20238 | | VW | VW G 060 162 |
| Jaguar | ATF 3403 JLM20238 | | VW | VW G US 000 162 |
| Jaguar | JLM 20292 | | VW | VW TL 521 62 |
| Jaguar | Fluid 8432 | | ZF | ZF all 3 & 4 speed transmission |
| Jaguar | 02JDE26444 | | ZF | ZF TE-ML 09 |
| Jaguar | WSS-M2C922A1 | | ZF | ZF TE-ML 11A, 11B |
| JASO | M315-2013 1A | | | |
| JASO | M315-2013 1A-LV | | | |
| JASO | M315-2013 2A | | | |
| JEEP | ATF+3 | | | |
| KIA | ATF SP-II, SP-III, SP-IV, SP-IVM, Red 1 | | | |

### Application Exceptions

1) Shell Spirax S6 ATF X should not be used where Ford Type F fluids are recommended; check application manual if the vehicle is one of the following: Datsun/Nissan pre 1971, Lincoln pre 1978, Ford/Mercury pre 1981, Toyota pre 1983, Volvo pre 1985, Mazda pre 1986, Saab pre 1993

2) Shell Spirax S6 ATF X should not be used in Continously Variable Transmissions (CVTs) or Double Clutch Transmissions (DCTs) unless the transmission requires one of these specific OEM ATF grades or equivalent fluid applications.

3) Shell Spirax S6 ATF X is not recommended for newer Daimler transmissions (ATF 134 or later MB Approval 236.12, 236.14, 236.15 or 236.17), General Motors and Ford (MERCON® ULV) 10 speed ATFs, and other specialty transmissions where a very low viscosity ATF is recommended.

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- **Advice**

  Advice on applications not covered here may be obtained from your Shell or Shell Lubricants distributor representatives or technical helpdesks.