Technical Data Sheet

# FULL SYNTHETIC MOTOR OIL

**Meets API Service Categories SM, SL, SJ, Energy Conserving ILSAC GF-4 specification.**
**Has enhanced wear protection and outstanding resistance to thermal breakdown at operating temperatures.**

## PRODUCT DESCRIPTION

FormulaShell® FULL SYNTHETIC MOTOR OIL is a motor oil formulated for improved fuel economy and to provide the engine protection and performance required by engine manufacturers. FormulaShell® FULL SYNTHETIC MOTOR is compatible with other conventional and synthetic oils. It exceeds all automobile and light truck warranty requirements for gasoline and turbocharged engines where an API SM and ILSAC GF-4 oil is recommended. This oil can be used in place of API SL, or SJ rated oils. Always follow the vehicle manufacturer's recommendation for the right viscosity grade and API Service Category.

## FEATURES

FormulaShell® FULL SYNTHETIC MOTOR OIL meets or exceeds:

- North American warranty requirements for U.S., European and Japanese cars and light trucks with gasoline and gasoline turbo-charged engines where API SM, SL, SJ or CF oils are specified
- ILSAC GF-4 Energy Conserving standards
- General Motors GM6094M specification
- Chrysler MS 6395N specification
- Ford WSS-M2C930-A (5W-20) and WSS-M2C929-A (5W-30) specifications

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## BENEFITS

Compared to conventional oils, the results are:

- Excellent lubrication at extremely low temperatures
- Extra protection at extremely high temperatures
- Lower oil consumption under high speed conditions
- Extra protection against harmful deposits and acids, which aids in a clean running and lasting engine
- May be used at any time in an engines life-cycle and is fully compatible with conventional engine oils

# TYPICAL PHYSICAL AND CHEMICAL PROPERTIES
# FormulaShell® FULL SYNTHETIC MOTOR OIL

| **TEST** | **TYPICAL RESULTS** | | |
|---|---|---|---|
| **SAE Viscosity Grade** | **5W-20** | **5W-30** | **10W-30** |
| API Gravity | 35.1 | 34.4 | 33.8 |
| Viscosity, cSt, 40°C | 46.5 | 57.47 | 61.5 |
| Viscosity, cSt, 100°C | 8.7 | 10.51 | 10.5 |
| Flash Point, °C | 227 | 225 | 228 |
| Pour Point, °C | -49 | -36 | -33 |
| CCS Viscosity, cP (°C) | 3480 | 4,300 (-30°C) | 4,090 (-25) |
| MRV Viscosity, cP (°C) | 9300 (-35°C) | 17,300 (-35°C) | 11,100 (-30) |