

Product Data Sheet



HB-1100 DURAFILM

Semi-Synthetic Automotive Motor Oil

CUSTOMER BENEFITS

HB-1100 DURAFILM Semi-Synthetic Motor Oils provide:

- Excellent antiwear protection
- Excellent protection against thermal breakdown
- Cleaner engines and cleaner positive crankcase ventilation systems with less mineral deposit formation under stop-and-go driving conditions and heavy loads
- Meets or exceeds the requirements of car and light truck manufacturers requiring SM motor oil
- Better high temp control

FEATURES BENEFITS:

HB-1100 DURAFILM Semi-Synthetic Motor Oils are the highest quality Automotive Oils

All grades are formulated with the highest quality base stocks, a shear-stable viscosity index improver, and contain these additional components: detergent, dispersant, wear control, antioxidant, corrosion inhibitor, and foam suppressant.

HB-1100 DURAFILM Semi-Synthetic Motor Oils anti wear ingredients provide excellent wear protection for vital engine parts. High levels of dispersant's in Motor Oils protects against the formation of sludge and deposit in regular stop and go driving and sustained high temperature operations, as well as protects against corrosion.

HB-1100 DURAFILM Semi-Synthetic Motor Oils have excellent high temperature oxidation stability to prevent viscosity increase and the gelling on oil in the crankcase. These oils keep PCV systems clean and help to maintain smooth performance in automotive engines.

APPLICATIONS:

HB-1100 DURAFILM Semi-Synthetic Motor Oils are recommended for all four-stroke gasoline engines used in passenger cars, light trucks, powerboats, motorcycles, and other mobile and stationary equipment. These oils are superior for high-revving engines in small cars and light trucks. All grades are specially blended for use in both new and high-mileage cars, and in turbocharged as well as normal aspirated engines.

HB-1100 DURAFILM Semi-Synthetic Motor Oils meet:

- **SERVICE CATEGORIES**

- SM, SL, SJ, SH¹ and all previous API “S” Categories
- Energy Conserving for SM (SAE 5W-20, 5W-30, 10W-30)

- **MANUFACTURERS’ PERFORMANCE REQUIREMENTS**

- Daimler Chrysler**

MS-6395N (SAE 5W-20, 5W-30, 10W-30)

- Ford**

WSS-M2C930-A (SAE 5W-20)

WSS-M2X929-A (SAE 5W-30)

- General Motors**

GM 6094M (SAE 5W-20, 5W-30, 10W-30)

- **DEPARTMENT OF DEFENSE COMMERCIAL ITEM DESCRIPTION (CID)**

-SAE J2362 (formerly CID A-A-52039²) (SAE 5W-30, 10W-30)

***ALWAYS CONSULT YOUR OWNERS MANUAL FOR THE PROPER FLUID FOR YOUR EQUIPMENT**

TYPICAL TEST DATA

SAE GRADE	5W-20	5W-30	10W-30	10W-40	20W-50
API Gravity	32.9	32.6	30.6	30.9	29
VISCOSITY cSt at 40°C	47	59	65	110	175
cSt at 100°C	8	10	10	14	18
COLD CRANK C/Poise	-30/47	-30/47	-28/52	-24/63	-15/80
VISCOSITY Index	145	149	129	140	122
Flash Point, 'C('F)	395	395	410	410	410
Pour Point, 'C('F)	-39	-39	-39	-30	-16
Base Number, ASTM D 2896	8	8	8	8	8
Sulfated Ash, wt %	1.0	1.0	1.0	1.0	1.0

Typical test data are average values only. Minor variations which do not affect product performance are to be expected in normal manufacturing.