



Type M Aviation Oil

Phillips 66® Type M Aviation Oil is an ashless, non-dispersant, multi-grade engine oil recommended for use in aircraft piston engines where the operator prefers a mineral oil-based engine oil that does not contain dispersant additives. It provides easier starting and quicker oil circulation at low temperatures compared with single-grade mineral oils, while maintaining high film strength at high temperatures and under high loads for protection against wear and piston scuffing.

Type M Aviation Oil typically is used as break-in oil for newly overhauled engines where all-mineral type oils are recommended. The multi-grade formulation helps reduce cylinder glazing tendency during break-in. Break-in normally is accomplished in less than 25 hours of engine operation.

Applications

- Aircraft piston engines where the operator prefers a non-dispersant engine oil
- “Break-in” oil for newly overhauled aircraft engines

Type M Aviation Oil meets the requirements of:

- SAE Standard J1966
- U.S. Military Specification MIL-L-6082 (obsolete)

QPL approval number: N06L1-20W-50 (Type M)

Features/Benefits

- Easier starting and quicker oil circulation at low temperatures compared with single-grade oils
- High film strength for protection against wear and piston scuffing, even under high-load conditions, such as takeoff, and at elevated operating temperatures
- Reduces cylinder glazing tendency during break-in, compared with single grade oils

**Non-Dispersant,
Multi-Grade
Engine Oil for
Aircraft Piston
Engines**

KEEPING THE
WORLD
RUNNING
SMOOTHLY. 



Type M Aviation Oil

Typical Properties	
SAE Grade	20W-50
Gravity, °API	30.4
Specific Gravity @ 60°F	0.874
Density, lbs/gal @ 60°F	7.28
Color, ASTM D1500	2.0
Flash Point (COC), °C (°F)	234 (453)
Pour Point, °C (°F)	-30 (-22)
Viscosity, Kinematic	
cSt @ 40°C	166
cSt @ 100°C	19.5
Viscosity Index	135
Cold Cranking Viscosity, cP @ -15°C	5,360
Ash Content, SAE J1787, wt %	Nil

Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/EN/products/Pages/MSDS.aspx>.

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Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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