



# Makina Grease & Lubricants Manufacturing L.L.C.

## Unimax

### Description

Makinalube Unimax is superior quality fuel-saving multi-grade motor oil formulated to meet most American, European and Asian car manufacturers' service fill specifications. This product is available in multi-grade 20W/50 viscosity. Its formulation is specifically designed for fuel economy, stop and go operations as well as for high speed high temperature long distance driving. Makinalube Unimax meets or exceeds API Service Classification SJ, SH, SG, SF, CD and CC.

### Application

Makinalube Unimax is formulated with high quality base oils and a proven shear stable viscosity index improver to provide easy starting in winter, as well as excellent viscosity retention and low oil consumption under high temperature operating conditions. It contains a highly effective friction modifier for improved fuel economy and the most advanced additive package designed to keep pistons and rings deposit-free despite adverse operating conditions. This product minimizes harmful "black sludge"; varnish and piston ring and valve-train wear. In addition, it provides excellent protection against rust, corrosion and foaming.

Makinalube Unimax is recommended for year round use in passenger cars, light duty trucks and vans with naturally aspirated or turbocharged gasoline engines. It may also be used in light duty diesel engines, where premium quality motor oil of API SJ, SH, SG or SF/CD performance levels are required.

Follow the equipment manufacturer's recommendations for required lubricant performance levels and viscosity grades.

### Typical Characteristics

PROPERTIES	UNITS	TEST METHOD	VALUE		
SAE Grade		DIN 51 511	10W-30	15W-40	20W-50
Density @ 15 °C	kg/m <sup>3</sup>	ASTM D-4052	881	888	891
Viscosity @ - 25 °C	mPa.s	ASTM D-5293	6000	-----	-----
Viscosity @ - 20 °C	mPa.s	ASTM D-5293	-----	6000	-----
Viscosity @ - 15 °C	mPa.s	ASTM D-5293	-----	-----	7000
Viscosity @ 100 °C	mm <sup>2</sup> /s	ASTM D-445	11.4	15.4	18.5
Viscosity Index		ASTM D-2270	147	133	122
Flash Point, COC	°C	ASTM D-92	226	230	240
Pour Point	°C	ASTM D-97	-27	-24	-21
Base Number	mg KOH/g	ASTM D-2896	6	6	6