

# ROYCO® 586

## MINERAL BASED GEAR LUBRICATING OIL

**ROYCO® 586 Grades L and M** are highly refined petroleum oil based lubricants formulated with modern additives to provide oxidation and corrosion protection, high load carrying, antifoaming, as well as high viscosity index for both low and high temperature fluidity.

**ROYCO® 586** is available in viscosity grades L (light) and M (medium).

### APPLICATIONS

**ROYCO® 586** is recommended for lubrication of gears exposed to light to moderate load and low to moderate speed applications. Grade L is intended for use in low temperature environments and Grade M is intended for use in moderate to warm climates. ROYCO® 586 is particularly suitable for the lubrication of helicopter gearboxes as well as general-purpose industrial applications requiring an E.P. lubricant for heavily loaded gears.

### FEATURES AND BENEFITS

#### Features

- **Outstanding Extreme Pressure Characteristics**
- **Rust, oxidation and corrosion inhibition**
- **High Viscosity Index**

#### Benefits

- **Protects gears in a wide temperature range even in light-to-medium gear trains or gear boxes that operate in low-to-medium speeds down to -40°C.**

### APPROVALS AND SPECIFICATIONS

**ROYCO® 586 Gr. L and Gr. M** meets all requirements of and is qualified to MILSPEC: MIL-PRF-6086F Grades L and M. NATO Codes NATO O-153 and O-155 respectively.



## TYPICAL PROPERTIES

PROPERTIES	TEST METHOD	ROYCO® 586	
		GRADE L	GRADE M
<b>Kinematic Viscosity, cSt</b>	ASTM D445		
<b>@ 37.8°C (100°F)</b>		26.63	73.9
<b>@ 98.9°C (210°F)</b>		4.97	9.18
<b>Viscosity Index</b>	ASTM D2270	123	111
<b>Flash Point, °C</b>	ASTM D92	173	187
<b>Acid Number, mq KOH/g</b>	ASTM D974	0.13	0.06
<b>Load Wear Index, kg</b>	ASTM D-2783	46.8	52.2
<b>Foam Resistance, ml initial/final</b>	ASTM D892		
<b>Sequence I</b>		1/0	1/0
<b>Sequence II</b>		14/0	13/0
<b>Sequence III</b>		3/0	1/0
<b>Gravity, API</b>	ASTM D287	28.9	23.2
<b>Density, pounds per gallon</b>		7.346	7.587
<b>Precipitation Number</b>	ASTM D91	0.00	0.00
<b>Copper Corrosion, 100°C, 3 Hrs</b>	ASTM D130	1B	1B
<b>ASTM Color</b>	ASTM D1500	1.5	1.8
<b>Pour Point, °C</b>	ASTM D97	-44	-38

## PACKAGING

**ROYCO® 586 Grade L and Grade M** are available in 5-gallon pails and 55-gallon drums. Other package sizes may be available on special request.



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