

# Product Data

# G.O. 80w90

## Premium Extreme Pressure Gear Oil

### Typical Gear Box Problems:

- ✓ Dry Starts
- ✓ Upper and Middle  
Gear Failure
- ✓ Gear Box Runs Hot
- ✓ Lubrication Does Not  
Hold Up Under  
Extreme Conditions
- ✓ Foaming Causes  
Pressure Buildup

### G.O. 80w90... Performance in Action.

• **ADHESIVE ACTION.** G.O. 80w90 climbs to upper and middle gears and bearings. There is no delay waiting for lubricant to splash to upper mechanisms. Superior film strength maintains better metal-to-metal separation which reduces friction, so gear box runs cooler and less energy is drawn.

**PERFORMANCE BENEFIT:** No dry starts which cause excessive gear or bearing wear. Climbing action provides optimum protection against scoring and excessive wear.

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• **ANTI-WEAR ADDITIVES.** G.O. 80w90's exclusive polymer formulation prevents scoring and excessive wear. It is non-corrosive to gears and ball and roller bearings.

**PERFORMANCE BENEFIT:** Anti-wear protection means less repair, replacement and downtime costs.

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• **TACKIFIER ADDITIVE.** A tackifying agent is added to reduce cold start-up wear.

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• **ANTI-FOAMING, ANTI-OXIDIZING.** G.O. 80w90 provides excellent anti-foaming properties and superior resistance to oxidation at high temperatures.

**PERFORMANCE BENEFIT:** Will not trap heat and cause gear boxes to operate at excessive temperatures.

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standards worldwide...*

## APPLICATIONS

Recommended for the lubrication of gears (spur, hypoid, worm, spiral, bevel, helical, planetary and combinations). G.O. 80w90 is ideal when an extreme pressure, all purpose lubricant is needed for transmission (not automatic) and differentials in cars, trucks, tractors and other industrial and agricultural vehicles.

## ADVANTAGES

- Excellent oxidative and thermal stability
- Superior rust and corrosion inhibition
- Exceptional load-carrying capability
- Excellent water-separating characteristics

## DIRECTIONS

See label instructions.

## TECHNICAL DATA

<b>SAE Grade:</b>	80w90
<b>ISO No.:</b>	150
<b>AGMA 4EP:</b>	4 EP
<b>Viscosity:</b>	
@ 40°C, cSt:	150
@ 100°C, cSt:	16.5
SUS @ 100°F:	673
SUS @ 210°F:	83.9
<b>Viscosity Index:</b>	121
<b>Pour Point, °F:</b>	-5
<b>Flash Point, COC:</b>	440°F
<b>Timken Load:</b>	80 lbs.

## APPROVALS

G.O. 80w90 meets the requirements of MIL-2105D, American Gear Manufacturers Association standard specification 9005-D94 and U.S. Steel 224.



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C-13/PC-3731/1013

# Product Data

# G.O. 90w

## Premium Extreme Pressure Gear Oil

### Typical Gear Box Problems:

- ✓ Dry Starts
- ✓ Upper and Middle Gear Failure
- ✓ Gear Box Runs Hot
- ✓ Lubrication Does Not Hold Up Under Extreme Conditions
- ✓ Foaming Causes Pressure Buildup

### G.O. 90w... Performance in Action.

● **ADHESIVE ACTION.** G.O. 90w climbs to upper and middle gears and bearings. There is no delay waiting for lubricant to splash to upper mechanisms. Superior film strength maintains better metal-to-metal separation which reduces friction, so gear box runs cooler and less energy is drawn.

**PERFORMANCE BENEFIT:** No dry starts which cause excessive gear or bearing wear. Climbing action provides optimum protection against scoring and excessive wear.

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● **ANTI-WEAR ADDITIVES.** G.O. 90w's exclusive polymer formulation prevents scoring and excessive wear. It is noncorrosive to gears and ball and roller bearings.

**PERFORMANCE BENEFIT:** Anti-wear protection means less repair, replacement and downtime costs.

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● **TACKIFIER ADDITIVE.** A tackifying agent is added to reduce cold start-up wear.

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● **ANTI-FOAMING, ANTI-OXIDIZING.** G.O. 90w provides excellent anti-foaming properties and superior resistance to oxidation at high temperatures.

**PERFORMANCE BENEFIT:** Will not trap heat and cause gear boxes to operate at excessive temperatures.

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## APPLICATIONS

Recommended for the lubrication of gears (spur, hypoid, worm, spiral, bevel, helical, planetary and combinations). G.O. 90w is ideal when an extreme pressure, all purpose lubricant is needed for transmission (not automatic) and differentials in cars, trucks, tractors and other industrial and agricultural vehicles.

## ADVANTAGES

- Excellent oxidative and thermal stability
- Superior rust and corrosion inhibition
- Exceptional load-carrying capability
- Excellent water-separating characteristics

## DIRECTIONS

See label instructions.

## TECHNICAL DATA

SAE Grade:	90w
ISO No.:	220
AGMA 4EP:	5 EP
Viscosity:	
@ 40°C, cSt:	220
@ 100°C, cSt:	18.5
SUS @ 100°F:	1045
SUS @ 210°F:	94
Viscosity Index:	103
Pour Point, °F:	-5°F
Flash Point, COC:	> 455°F
Timken Load:	80 lbs.

## APPROVALS

G.O. 90w meets the requirements of MIL-2105D, American Gear Manufacturers Association standard specification 9005-D94 and U.S. Steel 224.



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C-13/PC-3741/1013

# Product Data

# G.O. 140w

## Premium Extreme Pressure Gear Oil

### Typical Gear Box Problems:

- ✓ Dry Starts
- ✓ Upper and Middle Gear Failure
- ✓ Gear Box Runs Hot
- ✓ Lubrication Does Not Hold Up Under Extreme Conditions
- ✓ Foaming Causes Pressure Buildup

### G.O. 140w... Performance in Action.

● **ADHESIVE ACTION.** G.O. 140w climbs to upper and middle gears and bearings. There is no delay waiting for lubricant to splash to upper mechanisms. Superior film strength maintains better metal-to-metal separation which reduces friction, so gear boxes run cooler and less energy is drawn.

**PERFORMANCE BENEFIT:** No dry starts which cause excessive gear or bearing wear. Climbing action provides optimum protection against scoring and excessive wear.

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● **ANTI-WEAR ADDITIVES.** G.O. 140w's exclusive polymer formulation prevents scoring and excessive wear. It is noncorrosive to gears and ball and roller bearings.

**PERFORMANCE BENEFIT:** Anti-wear protection means less repair, replacement and downtime costs.

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● **TACKIFIER ADDITIVE.** A tackifying agent is added to reduce cold start-up wear.

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● **ANTI-FOAMING, ANTI-OXIDIZING.** G.O. 140w provides excellent anti-foaming properties and superior resistance to oxidation at high temperatures. **PERFORMANCE BENEFIT:** Will not trap heat and cause gear boxes to operate at excessive temperatures.

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## APPLICATIONS

Recommended for the lubrication of gears (spur, hypoid, worm, spiral, bevel, helical, planetary and combinations). G.O. 140w is ideal when an extreme pressure, all-purpose lubricant is needed for transmission (not automatic) and differentials in cars, trucks, tractors and other industrial and agricultural vehicles.

## ADVANTAGES

- Excellent oxidative and thermal stability
- Superior rust and corrosion inhibition
- Exceptional load-carrying capability
- Excellent water-separating characteristics

## DIRECTIONS

See label instructions.

## TECHNICAL DATA

<b>SAE Grade:</b>	140w
<b>ISO No.:</b>	460
<b>AGMA 4EP:</b>	7 EP
<b>Viscosity:</b>	
<b>@ 40°C, cSt:</b>	460
<b>@ 100°C, cSt:</b>	35
<b>SUS @ 100°F:</b>	2250
<b>SUS @ 210°F:</b>	155
<b>Viscosity Index:</b>	113
<b>Pour Point, °F:</b>	0°F
<b>Flash Point, COC:</b>	425°F
<b>Timken OK Load:</b>	80 lbs.

## APPROVALS

G.O. 140w meets the requirements of MIL-2105D, American Gear Manufacturers Association standard specification 9005-D94 and U.S. Steel 224.



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C-13/PC-3751/1013

## Product Data

# G.O. 85w140

## Premium Extreme Pressure Gear Oil

### Typical Gear Box Problems:

- ✓ Dry Starts
- ✓ Upper and Middle Gear Failure
- ✓ Gear Box Runs Hot
- ✓ Lubrication Does Not Hold Up Under Extreme Conditions
- ✓ Foaming Causes Pressure Buildup

### G.O. 85w140... Performance in Action.

● **ADHESIVE ACTION.** G.O. 85w140 climbs to upper and middle gears and bearings. There is no delay waiting for lubricant to splash to upper mechanisms. Superior film strength maintains better metal-to-metal separation which reduces friction, so gear box runs cooler and less energy is drawn.

**PERFORMANCE BENEFIT:** No dry starts which cause excessive gear or bearing wear. Climbing action provides optimum protection against scoring and excessive wear.

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● **ANTI-WEAR ADDITIVES.** G.O. 85w140's exclusive polymer formulation prevents scoring and excessive wear. It is non-corrosive to gears and ball and roller bearings.

**PERFORMANCE BENEFIT:** Anti-wear protection means less repair, replacement and downtime costs.

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● **TACKIFIER ADDITIVE.** A tackifying agent is added to reduce cold start-up wear.

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● **ANTI-FOAMING, ANTI-OXIDIZING.** G.O. 85w140 provides excellent anti-foaming properties and superior resistance to oxidation at high temperatures.

**PERFORMANCE BENEFIT:** Will not trap heat and cause gear boxes to operate at excessive temperatures.

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## APPLICATIONS

Recommended for the lubrication of gears (spur, hypoid, worm, spiral, bevel, helical, planetary and combinations). G.O.85w140 is ideal when an extreme pressure, all purpose lubricant is needed for transmission (not automatic) and differentials in cars, trucks, tractors and other industrial and agricultural vehicles.

## ADVANTAGES

- Excellent oxidative and thermal stability
- Superior rust and corrosion inhibition
- Exceptional load-carrying capability
- Excellent water-separating characteristics

## DIRECTIONS

See label instructions.

## TECHNICAL DATA

<b>SAE Grade:</b>	85w140
<b>ISO No.:</b>	460
<b>AGMA 4EP:</b>	7 EP
<b>A.P.I. Gravity:</b>	25.8
<b>Viscosity:</b>	
<b>SUS @ 100°F:</b>	2250
<b>SUS @ 210°F:</b>	155
<b>@40°C, cSt:</b>	460
<b>@100°C, cSt:</b>	35
<b>Viscosity Index:</b>	114
<b>Pour Point, °F:</b>	0°F
<b>Flash Point, COC:</b>	> 455°F
<b>Timken Load:</b>	80 lbs.

## APPROVALS

G.O. 85w140 meets the requirements of MIL-2105D, American Gear Manufacturers Association standard specification 9005-D94 and U.S. Steel 224.



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C-13/PC-3756/1013