



# CERTOP

## Advanced Performance Multi-Grade Gear Oil

80W-90 and 85W-140

- CERTOP CONTAINS A TOTAL ADDITIVE PACKAGE THAT SETS IT APART FROM OTHER GEAR OILS
- HEAVY DUTY GEAR OIL SPECIFICALLY FORMULATED TO SOLVE PROBLEMS WITH INDUSTRIAL EQUIPMENT.
- PROVIDES SUPERIOR PROTECTION AGAINST LEAKING SEALS, DRY STARTS, WATER CONTAMINATION, OXIDATION AND FOAMING
- LAST UP TO 4 TIMES LONGER THAN CONVENTIONAL GEAR OILS

### FEATURES AND BENEFITS

- Eliminates Dry Start Wear
- Prevents Seals from Leaking
- Prevents Rust and Corrosion
- Displaces Water for Easy Drainage
- Controls Foaming
- Lowers Operating Temperatures and Resists Oxidation to Prolong Oil Life
- Wide Temperature Range Up to 149°C
  - 80W-90 flows down to -27°C
  - 85W-140 flows down to -12°C
- Viscosity Index Improvers: Maintain full viscosity over a wider temperature range to ensure full protection in fluctuating conditions. Eliminate the need to switch oil grade in different seasons.



### AREAS OF USE

- Industrial Manufacturing
- Utility Plants
- Paper Mills & Packaging Plants
- Steel Mills & Foundries
- Printing
- Food Processing Plants
- Chemical Plants
- Plastic and Rubber Plants
- Refineries

For more Technical Data, please refer to Safety Data Sheet of the Product.

**NCH AUSTRALIA PTY. LTD.** (ABN 19 000 609 316)

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Additive	Benefit
<b>Premium Grade Base Oil</b>	Superior grade, highly-refined base oil resists oxidation and high-temperature breakdown to maintain better lubricity.
<b>Adhesive and Cohesive Polymers, Tackiness Agents</b>	Keep oil on gears during high-speed operations and during idle periods. Helps prevent mechanical wear, stress fractures and dry starts
<b>Rust and Corrosion Inhibitors</b>	Blocks out corrosive elements such as acids, water, condensate and steam by forming a protective barrier on equipment surfaces to prevent chemical wear
<b>Extreme Pressure (EP) Agents</b>	Heat seeking additive which increases the ability of the lubricant to prevent the extreme wear that can occur under loads.
<b>Oxidation Inhibitors</b>	Extends service life of the lubricant by retarding the oxidation or breakdown process.
<b>Shock Load Reducers</b>	Cushions impact to minimize the stress, vibration and chatter that can occur under heavy loads and during start-stop operations.
<b>Seal Conditioners</b>	Special compounds that soften and condition seals to keep them from hardening and cracking.
<b>Leak inhibitors</b>	Most seal leaks occur because many oils cause seals to shrink. Special agents provide a controlled swell to bring the seals back to their normal size.
<b>Demulsifiers</b>	Separates water from oil to keep metal surfaces dry. Allows excess water to be drained from equipment.
<b>Anti-Foam Agents</b>	Withstand agitation and heat without forming foam contaminants. Reduce pressure levels on seals and vents.

**IDEAL FOR USE ON:** Differentials, Limited-Slip Differentials, Simple Manual Transmissions, Axles, Power Dividers , Gear Trains, Bronze Gears (up to 93°C) and Gear Boxes including enclosed gears of spur type, hypoid, spiral bevel, worm, herringbone, helical, planetary and unusual combinations of gear types. Can be added as make-up oil to other GL-5 paraffin-base gear oils.

**DO NOT USE FOR:**

Automatic (use LubeMaster ATF), universal C-3 fluid (use LubeMaster OIL-ALL), combined transmissions. Truck transmissions that only allow the use of GL-1 gear oil / motor oil (use STRATA Motor Oils), Spicer/Dana or Fuller transmissions (use LubeMaster Eaton Approved Lubricants) or any other equipment for which the manufacturer does not recommend this type of gear lubricant.

Never mix with asphaltic-type or "SCL"-type lubricants.

PHYSICAL PROPERTIES	80w/90	85w/140
<b>Weight Per Gallon, Lbs</b>	7.5	7.5
<b>Viscosity, cSt @40°C</b>	176.78	410.50
<b>@100°C</b>	17.8	29.1
<b>Viscosity, SUS @40°C</b>	819.0	1902.0
<b>@100°C</b>	89.3	138.2
<b>Viscosity Index</b>	110	98
<b>Fire Point, °C</b>	230	235
<b>Pour Point, °C</b>	-27°	-12°
<b>Maximum Continuous Operating Temperatures, °C</b>	160	160
<b>Copper Corrosion, ASTM D-130, 3 Hours @ 250°F</b>	Pass, 1 B	Pass, 1 B
<b>Thermal Oxidation Stability Test L-60</b>	Pass	Pass
<b>Falex Load, ASTM 3233, Failure Load, Lbs.</b>	60	60
<b>Film Strength, Four Ball Method, ASTM D-2783</b>	315	400
<b>Weld, Load, KG</b>	315	400
<b>Load Wear Index</b>	57	69
<b>Wear Scar Diameter, ASTM D-4172, MM</b>	0.28	0.28

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