



Product Description

CARCAL Max Gear 80W-90 and 85W-140 are extra high performance commercial gear lubricants formulated from select base oils and an advanced additive system. These lubricants are engineered for performance in heavy-duty commercial transmissions, axles, and final drives where extreme pressures and shock loading are expected. They provide excellent chemical and thermal stability at elevated bulk oil temperatures, good performance at low temperatures, and have demonstrated good rust protection resulting from water contamination and wet conditions. They are recommended by Atom Chemicals UK for applications where API GL-5 and MT-1 service is required. CARCAL Max Gear 80W-90 and 85W-140 share common formulations with GL 7001 Gear Oil GX 80W-90 and 85W-140.

Features and Benefits

- Excellent thermal stability and resistance to high temperature oxidation.
- Extended gear and bearing life due to minimal deposits and longer seal life.
- Good protection against low speed/high torque wear and against high speed scoring.
- Increased load carrying capability and reduced operating costs.
- Excellent rust, staining, and corrosion protection.
- Reduced wear and longer component life.
- Effective low temperature lubrication.
- Reduced wear and ease of start-up.
- Wide multipurpose capability.
- Reduced number of gear lubricants to simplify inventory and minimize misapplication.
- Good resistance to foaming Maintains film strength for effective lubrication.
- Compatible with typical automotive seals and gaskets.
- Minimum leakage and reduced contamination.

Applications

Recommended by Atom Chemicals UK for use in:

Heavy-duty manual transmissions, axles, and final drives requiring API GL-5 and MT-1 level performance On-highway light and heavy-duty trucks, busses, vans, and cars

Off-highway industries including: construction, mining, quarrying, and agriculture

Other heavy-duty industrial and automotive applications involving hypoid and other gears operating under conditions where high speed/shock load, high speed/low torque, and/or low speed/high torque conditions prevail

Initial fill, top-off, and refill of enclosed commercial gearing in manual or semiautomatic transmissions where gear lubricants are recommended including drive axles and final drives

Not recommended for applications requiring API GL-4 Level performance

Not intended for transmissions for which engine oil or automatic transmission fluids are recommended

Specifications and Approvals

Carcal MAX GEAR 80W-90 , 85W-140 is recommended by Atom Chemicals UK for use in applications requiring:
GL-5

Typical Properties

Anti-Wear Hydraulic Oil ISO VG-68		
Viscosity Grade	80W-90	85W-140
Viscosity @ 40°C	139	333
Viscosity @ 100°C	14.5	25.4
Density @ 15°C , kg/l	0.895	0.901
Viscosity Index	103	99
Flash Point	210	230
Pour Point	-25	-18