

Premium Mineral SAE 90 Limited Slip Differential Oil

Nulon Premium Mineral SAE 90 Limited Slip Diff Oil (LSD90) is developed for limited slip differential applications to withstand high loads and repeated shock-load conditions. Also ideal for conventional differentials and vehicles that operate under heavy duty conditions such as 4x4, towing, or carrying heavy loads. Nulon LSD90 is suitable for use where API GL-5 or GL-6 (obsolete) is recommended.

LSD90 is formulated using the synergy of high viscosity base fluids with an extreme pressure additive system, corrosion inhibitor and friction modifier technology. This enhances wear protection and corrosion resistance and provides smoother operation in limited slip differentials. LSD90 is engineered using high shear stable material to withstand extreme loads and maintain viscosity.

Nulon LSD90 meets the severe requirements of API MT-1 suitable for use in non-synchronized manual transmissions and final drive axles in buses and heavy-duty trucks. LSD90 provides superior protection against oil seal deterioration & component wear and thermal degradation during high operating temperatures.

LSD90 is modified with anti-friction additive to reduce and even eliminate differential clutch chatter in vehicles fitted with a limited slip differential. It ensures smooth operation for either limited slip or conventional hypoid differentials.

For enhanced anti-wear performance use [Nulon Smooth Shift Manual Gearbox & Diff Treatment. Part No: G70](#)



Benefits

- Good oxidation and thermal stability for longer oil service life
- High film strength to tolerate high loads
- Reduces differential clutch chatter (also known as judder)
- Excellent corrosion protection for differential component durability
- Excellent protection against oil seal deterioration
- Outstanding shear stability to maintain fluid viscosity and film thickness under high to severe operating conditions

Applications

- Limited Slip differential and rear axle passenger cars where API GL-5 or GL-6 is recommended
- 4WD, light trucks, light commercial vehicles, on highway and off highway vehicles
- Conventional type differentials under extremely high load
- Mack heavy-duty trucks and buses where API MT-1 classification is required

Typical Characteristics

| Typical Characteristics | LSD90 |
|-------------------------|--------|
| SAE Viscosity Grade | 90 |
| KV @ 100°C, cSt | 16.00 |
| KV @ 40°C, cSt | 163.0 |
| Viscosity Index | 102 |
| Density @ 15°C, g/mL | 0.8995 |
| Pour Point, °C | -27 |

Due to continued product research and development, the information contained in this Product Bulletin is subject to change without notification

Health and Safety

Avoid prolonged skin contact with used oils. Wear suitable gloves. If skin contact occurs wash immediately with soap and water. Prolonged and repeated contact with used oils may cause skin cancer. Protect the environment. Do not pollute drains, ground or water with used oils. Dispose of container as per local EPA guidelines. Do not use this container for fuel or solvents.

| Meets or exceeds the following oil industry specifications | |
|--|---|
| American Petroleum Institute | API GL-5, API GL-6 (Obsolete), API MT-1 |
| BTR | BTR 5M-31 |
| Ford | ESW-FM2C-1006A, ESW-FM2C-1006B, ESW-M2C-104A, ESW-M2C-105A, ESW-M2C-108A, ESW-M2C-119A, SM-2C-1013A |
| GM Claims | HN 1187, HN 1386, HN 1561 |
| Mack | Mack GO-J |
| Mercedes Benz | MB 235.0, MB 235.6 |
| US Military | MIL-L-2105 B, MIL-L-2105 C, MIL-L-2105 D, MIL-PRF-2105E |

Meets or exceeds the following oil industry specifications



Part No: LSD90-4
4 Litres - 3 Per Carton
Barcode: 9311090002166



Part No: LSD90-2.5
2.5 Litres - 6 Per Carton
Barcode: 9311090004146



Part No: LSD90-1
1 Litre - 6 Per Carton
Barcode: 9311090002074



Part No: LSD90-20
20 litres - Single Unit
Barcode: 9311090002210