

# Alisyn® ProGear 21 Type 4

## Synthetic Lubricating Oil

### CHARACTERISTICS

Alisyn ProGear 21 Type 4 is a 85W-140, that offers the performance and the protection of a GL-4 & GL-5 heavy-duty gear oil. In addition it is oxidatively stable, corrosion resistant, wide temperature range synthetic lubricating oil. It is compatible with copper and brass, most plastics, elastomeric, and rubber seals, gaskets, and O-rings, except EPDM rubber.

### APPLICATIONS

Alisyn ProGear 21 Type 4 is race proven in the most demanding racing environments... from Indy Cars, GTP Lights,

SCCA Endurance Cars, Circle Track cars, Pro Stock, and Pro Modified drag cars. The additive package was formulated to give exceptional load carrying capabilities (+4500 lb. Falex loads) while offering superior oxidation stability compared to other lubricants on the market. Customers report reduced gear box temperatures up to 45°F when compared to conventional lubricants and up to 30°F compared to other synthetic gear lubricants. These performance characteristics result in gear box operating efficiency increases of up to 15%.

| PERFORMANCE TEST           | TEST METHOD | CONDITION                                   | TYPICAL VALUES           |
|----------------------------|-------------|---|--------------------------|
| Temperature Range          |             |   | -30°F to 400°F           |
| SAE No.                    |             |   | 85W-140 Gear             |
| ISO VG                     | ASTM D-2422 |   | +320                     |
| Viscosity                  | ASTM D-445  | @ 210°F                                     | 37.14 cSt                |
|                            |             | @ 100°F                                     | 374.2 cSt                |
|                            |             | @ 0°F                                       | cSt                      |
|                            |             | @ -40°F                                     | cSt                      |
| Viscosity Index            | ASTM D-2270 |   | 154                      |
| Evaporation                | ASTM D-2595 | 6.5 hrs @ 400°F                             | %                        |
| Flash Point                | ASTM D-92   |   | 229°C                    |
| Fire Point                 | ASTM D-92   |   | F                        |
| Pour Point                 | ASTM D-97   |   | -29°C                    |
| Load Wear Index            | ASTM D-2783 |   | 48.41                    |
| Last Non-Seizure           |             | Load/Wear Scar                              | 100 kg/0.42 mm           |
| Last Seizure               |             | Load/Wear Scar                              | 250 kg/2.46 mm           |
| Weld Load                  |             | Load  | 315 kg                   |
| Steel-on-Steel Wear        | ASTM D-4172 | 1200 rpm, 40 kg, 52100 Steel, 1 hr          | 0.47 mm                  |
| Specific Gravity           | ASTM D1298  | @ 60°/60°F                                  | 0.8644                   |
| API Gravity                | ASTM D-1298 |   | 32.2                     |
| Rust Preventive Properties | ASTM D-665  | Procedure A                                 | Pass                     |
|                            |             | Procedure B                                 | Pass                     |
| Oxidation Test             | ASTM D-2893 | 312 hrs @ 203°F                             |                          |
|                            |             | Viscosity Incr. @ 212°F                     | 1.8%                     |
|                            |             | Precipitation No., Orig.                    | 0.0                      |
|                            |             | Precipitation No., Orig.                    | Trace                    |
| Foam Test                  | ASTM D-892  | Sequence 1 (mls @ 5 min air/mls settling)   | Trace/Nil @ 2 min        |
|                            |             | Sequence 2 (mls @ 5 min air/mls settling)   | 15Mils/0 @ 10 sec        |
|                            |             | Sequence 3 (mls @ 5 min air/mls settling)   | 30/0 @ 15 sec            |
| Falex EP Test              | ASTM D-3233 | Last Pass Load<br>Conv. to Contact Pressure | 4,500 lbs<br>202,980 psi |
| Timken Load Arm            | ASTM D-2782 | OK Load, lbs                                | +85                      |
|                            |             | Fail Load, lbs                              | +90                      |
| FZG Gear Test              |             | Load Stage                                  | + 12 Stage               |