

# Alisyn® ProGear 21 Type 3

## Synthetic Lubricating Oil

### CHARACTERISTICS

Alisyn ProGear 21 Type 3 gear oil meets the requirements of a SAE 75W-90 and GL-4 & GL-5. In addition, it is an oxidatively stable, corrosion resistant, wide temperature range synthetic lubricating oil. It is compatible with most plastic, elastomeric, and rubber seals, gaskets, and O-rings, except EPDM rubber.

### APPLICATIONS

Alisyn ProGear 21 Type 3 is specifically designed for HEAVY DUTY FLEET applications for the trucking industry. This 100% Synthetic Gear Oil has been proven in the most demanding

application: mining, earth-moving, excavating, and of course HEAVY DUTY FLEET APPLICATIONS. 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			-45°F to 350°F
SAE No.			75W-90
ISO VG	ASTM D-2422		+100
Viscosity	ASTM D-445	@ 210°F	20.84 cSt
		@ 100°F	129.6 cSt
		@ 0°F	cSt
		@ -40°F	cSt
Viscosity Index	ASTM D-2270		186
Evaporation	ASTM D-2595	22 hrs @ 300°F	5.41%
Flash Point	ASTM D-92		430°F
Fire Point	ASTM D-92		450°F
Pour Point	ASTM D-97		-45°F
Load Wear Index	ASTM D-2783		69.74
Last Non-Seizure		Load/Wear Scar	160 kg/0.51 mm
Last Seizure		Load/Wear Scar	315 kg/3.76 mm
Weld Load		Load	400 kg
Steel-on-Steel Wear	ASTM D-4172	1200 rpm, 40 kg, 52100 Steel, 1 hr	0.53 mm
Specific Gravity	ASTM D1298	@ 60°/60°F	0.86
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	1.76%
		Precipitation No., Orig.	0.0
		Precipitation No., Orig.	Trace
Foam Test	ASTM D-892	Sequence 1 (mls @ 5 min air/mls settling)	5/0 @ 60 sec
		Sequence 2 (mls @ 5 min air/mls settling)	Trace/0 @ 3 sec
		Sequence 3 (mls @ 5 min air/mls settling)	5/0 @ 60 sec
Falex EP Test	ASTM D-3233	Last Pass Load Conv. to Contact Pressure	+4,500 lbs 202,980 psi
Timken Load Arm	ASTM D-2782	OK Load, lbs	100
		Fail Load, lbs	None
FZG Gear Test		Load Stage	+ 12 Stage