



Technical Data Sheet

Updated: 8/16/2019

HOT SHOT'S SECRET ADRENALINE R11 80W-110 FULL SYNTHETIC Ultimate Gear Oil

Product Overview

Adrenaline R11 80W-110 gear oil was formulated for the toughest applications in racing that require a gear oil between SAE grade 90 and 140. The formulas are based on 100% pure poly- α -olefin (PAO) Group IV synthetic oil that requires a very small amount of viscosity improvers to meet the weight specifications. The infusion of our patented FR3 Nano Technology and high zinc additive package extends the performance and anti-wear protection to levels unmatched by any other gear oil on the market. The result is a gear oil that has increased oxidation and thermal stability, deposit and sludge prevention, reduced oil breakdown, high wear resistance and longer drain intervals.

Applications and Uses

Adrenaline R11 80W-110 is recommended as a gear oil for any demanding racing environment. They have proven successful in numerous Indy Cars, GTP Lights, SCCA Endurance Cars, Pro Stock and Pro Modified Drag Cars, High Horsepower Diesel Drag and Pulling Trucks.

Benefits

- Lowers gear oil consumption
- Anti-rust protection
- Increases boundary layer protection
- Increases film strength
- Improves oxidation stability
- Improves aeration control
- Reduces operating temperature
- Reduces wear
- Reduces shearing
- Reduces friction
- Reduces deposit formation
- Reduces noise and vibration
- Extends gear oil change interval



Packaging

Available in:

- 1 quart bottle
- 1 gallon jug
- 5 gallon bucket
- 55 gallon drum

Typical Properties

Property	Test Method	Result
Viscosity at 40 °C, cSt	D-445	251.9
Viscosity at 100 °C, cSt	D-445	28.99
Viscosity Index	D-2270	152
Minimum flash point, °C (°F)	D-92	221°C (430°F)
Stable pour point, °C (°F)	D-97	-30°C (-22°F)
Falex EP Test, lbs	D-3233	4500
Foam Test	D-892	
	Sequence 1 (mls @ 5 min air/mls settling)	3/0 @ 90 sec
	Sequence 2 (mls @ 5 min air/mls settling)	8/0 @ 6 sec
	Sequence 3 (mls @ 5 min air/mls settling)	20/0 @ 40 sec

The Safety Data Sheet is available at
<http://www.hotshotsecret.com/print-documents/>.