TECHNICAL DATA SHEET

Extreme Performance Racing

Premium Full Synthetic Motor Oil with Synerlec® & ZDDP

Product Description

Royal Purple® Extreme Performance Racing is a fully synthetic motor oil purpose-built to maximize horsepower, extend engine life, and provide superior high-temperature performance in the most demanding racing environments. Formulated with premium synthetic base oils, advanced Synerlec® additive technology, and elevated levels of anti-wear ZDDP, it is engineered to withstand the extreme heat, high loads, and sustained stress encountered in competitive motorsports, delivering the confidence and protection racers demand lap after lap.

Recommended for gasoline and light-duty diesel engines, including turbocharged, supercharged, and naturally aspirated applications. Extreme Performance Racing is compatible with exotic racing fuels and is ideally suited for modified and competition-built engines operating in both motorsports and street environments. Advanced friction-reducing additives help unlock maximum horsepower potential, while ZDDP (zinc dialkyldithiophosphate) delivers the wear protection needed to push hard to the finish. Exceptional oxidation resistance and strong film strength provide robust protection under extreme high-temperature, high-pressure conditions, helping maintain peak engine performance when it matters most. Extreme Performance Racing is suitable for use in competition & racing vehicles as well as street-driven gasoline and light-duty diesel applications. It is not recommended vehicles under warranty or for motorcycle / wet clutch applications.

When winning demands everything, **Royal Purple Extreme Performance Racing's** advanced synthetic technology delivers exceptional durability and uncompromising protection to help maximize performance from start to finish.

FEATURES AND BENEFITS

- MAXIMIZES HORSEPOWER – Lowered friction and Synerlec technology ensure maximum performance
- EXTENDS ENGINE LIFE – Industry leading anti-wear additives & elevated ZDDP reduce metal to metal contact
- SUPERIOR HIGH TEMP PERFORMANCE – Synthetic base oils + advanced additives resist thermal degradation

PRODUCT DATA

Typical Properties - ROYAL PURPLE EXTREME PERFORMANCE RACING									
Property	Test Method	0W-20	5W-20	5W-30	5W-40	5W-50	10W-40	20W-50	10W-60
KV40, cSt	ASTM D445	44.64	46.72	59.6	77.64	98.81	95	151.6	168.7
KV100, cSt	ASTM D445	8.38	8.25	10.12	13.61	16.72	14.74	18.98	23.33
Viscosity Index	ASTM D2270	166	152	158	180	184	162	142	168
Cold Crank Simulator, cP	ASTM D5293	5536 -35°C	4938 -30°C	5327 -30°C	4654 -30°C	5305 -30°C	5821 -25°C	5345 -15°C	6643 -25°C
Pour Point, C	ASTM D97	-59	-39	-36	-57	-57	-33	-30	-48
Flash Point, F	ASTM D92	444	444	444	450	440	454	440	474
Density @ 15° C, lb/gal	ASTM D4052	6.93	7.09	7.09	7.01	7.02	7.12	7.21	7.08

HEALTH and SAFETY

Health and safety recommendations for products can be found on the Safety Data Sheet (SDS) www.royalpurple.com

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