Hi-Tec Oil Traders Pty Ltd ABN 28 053 837 362
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PRODUCT DATA SHEET

SUPER HIGH PERFORMANCE RACING OILS

PRODUCT DESCRIPTION

Super High Performance Racing Oils are specialised high performance four stroke racing engine oils, which are specially formulated to ensure trouble-free lubrication of all high stressed racetrack engines. These ultra-performance oils provide sustained endurance under the rigours of competition racing, where engines are frequently stressed to their limits: extremes of load, turbo-charging, speed and high operating temperatures. The special additive chemistry with enhanced zinc anti-wear levels employed in **Super High Performance Racing Oils** maximises lubricant related power output and gives complete protection against scuffing and scoring of rapidly moving engine components.

Super High Performance Racing Oils are recommended where high octane gasolines and their mixtures and other high energy fuels such as methanol and nitromethane are employed. These premium engine oils are also ideally suited to conventional cars in both city and highway motoring.

CHARACTERISTICS

RESISTS WEAR & STRESS FAILURES. Standing starts, rapid accelerations and the high speeds of racing impose extreme loads on all engine moving parts. **Super High Performance Racing Oils** give complete protection to these highly stressed engines against scuffing, scoring and seizure. Extreme pressure and special anti-wear additives protect the moving engine parts against premature wear.

ARRESTS FOAM DEVELOPMENT. The rapid circulation of engine oil in racing engines quickly tends to promote undesirable foam formation. If not arrested, foam can quickly lead to engine seizure since the air/oil foam mixtures cannot sustain effective lubrication. **Super High Performance Racing Oils** are fortified with a combination of special foam inhibitors which eliminate foam development so that full-bodied lubrication is released under arduous competition racing conditions.

PEAK PERFORMANCE. Increased RPMs, though small, are a realisable bonus with **Super High Performance Racing Oils** since the lower apparent viscosity when compared to other oils results in less internal engine friction. The shear stable viscosity index improver polymers which are formulated into **Super High Performance Racing Oils** contribute to this special benefit. They have the ability to minimise any decreases in viscosity as temperatures increase so that lubrication is sustained in the critical high temperature ring belt areas. The special polymers allow, in the cooler areas of the engine, the heavily loaded bearings to sense a lower oil viscosity, which further assists in reducing fluid drag thus promoting the increased engine RPMs because of less frictional losses.

BETTER COMBUSTION - MAXIMUM POWER. **Super High Performance Racing Oils** employ low ash additive chemistry so that deposit formation attributed to oil in the combustion zone is limited, thereby eliminating power wasting pre-detonation.

Because racing engines rely on unique engineering and design modifications to maximise high power output and high speeds, it is essential that these engines be tuned to peak performance. When deposit formation occurs in the combustion zone, increases in compression ratio result, which may promote power loss due to inefficient premature fuel ignition. Whilst auto-ignition, audible or inaudible, can be effectively tuned out of engines, it may be at the expense of power and speed and require non-standard fuels with improved anti-detonation characteristics to rectify the problem. However, these special fuels may not be permissible in the competition event. Reduced deposit formation limits the need for these modifications.

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SPECIFICATIONS

Recommended for four stroke racing engines, normally aspirated or turbocharged, using gasoline, methanol and other high energy fuels such as nitromethane. Also for city and highway motoring.

Super High Performance Racing Oils meet or exceed the following demanding performance requirements:

API: SN, SM, SL, SJ, SH, CF, CD, CE

Always consult your vehicle owner's manual for the manufacturer's lubricant recommendations.

TYPICAL PROPERTIES

Property	ASTM Method	SAE 50	SAE 60	SAE 70
Item code (HI1-)		2055	2056	2054
SAE Grade		20W/50	25W/60	25W/70
Density (kg/Lt) @ 15°C	D-1298	0.889	0.906	0.895
Viscosity (cSt) @ 100°C	D-445	21.5	26.3	29.0
@ 40°C	D-445	215	285	330
Viscosity Index	D-2270	120	120	120
Pour Point (°C)	D-97	-27	-27	-24
Flash Point, COC (°C)	D-92	246	248	250
Sulphated Ash (% wt)	D-874	1.15	1.04	1.04
TBN (mg KOH/g)	D-2896	7.65	7.62	7.62
Foaming Characteristics	-	-	-	-
All Sequences	D-892	Nil	Nil	Nil
Zinc (% wt)	P-308	0.22	0.15	0.15
Phosphorus (% wt)	D-1091	0.20	0.13	0.13
Nitrogen (% wt)	-	0.07	0.07	0.07
Calcium (% wt)	-	0.24	0.24	0.24

Available in: Bulk, 200 Litres, 20 Litres, 5 Litres and 1 Litre (SAE 70 only)

Effective: February 2020

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