cyclon®

ENGINEERED TO PERFORM

TECHNICAL PRODUCT SHEET

ECO R² V1 0W—30

DESCRIPTION

ECO R2 V1 is a top-tier mid-SAPS engine lubricant formulated with high-quality re-refined synthetic base oils and advanced additive technology. Engineered to meet the stringent requirements of modern European engines, it delivers strong anti-wear protection, excellent piston cleanliness, and robust film strength under high-pressure and high-temperature operating conditions. Its re-refined synthetic base stock matrix ensures premium performance while significantly reducing the product's overall carbon footprint compared to lubricants made from virgin base oils.

APPLICATIONS

ECO R2 V1 is suitable for Euro 6, Euro 5, and Euro 4 gasoline and light-duty diesel engines, including turbocharged and naturally aspirated units equipped with TWC, GPF, or DPF systems. It is ideal for vehicles operating under long-life service intervals and for engines using advanced systems such as FSI, GDI, and common-rail technologies. Its formulation also supports the demands of modern hybrid vehicles, ensuring stable lubrication and low-emission compatibility across a wide range of driving conditions.

SPECIFICATIONS

API	SP	VW	502.00
ACEA	C3	VW	503.00
MB	229.51	VW	503.01
BMW	LongLife-04	VW	505.00
VW	507.00	VW	505.01
VW	504.00	VW	506.00
		VW	506.01

PROPERTIES

ECO R2 V1 features low-viscosity, low-friction rheology that enhances fuel efficiency and reduces mechanical losses. Its detergent–dispersant system ensures high engine cleanliness, controlling deposits and sludge formation even under severe thermal stress. The mid-SAPS formulation maintains compatibility with sensitive emissions-control aftertreatment systems, while its strong oxidation stability supports consistent performance throughout extended service intervals.

BENEFITS

ECO R2 V1 reduces fuel and oil consumption through optimized friction reduction and rapid lubrication at startup. Its wear-protection system enhances engine durability, while effective sludge and deposit control safeguard against oil starvation and performance decline. The use of re-refined synthetic base oils lowers environmental impact, supporting reduced lifecycle emissions while maintaining full protection for modern, high-efficiency powertrains.

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PHYSICAL-CHEMICAL CHARACTERISTICS

ECO R2 V1	METHOD	SAE 0W-30
Density at 15°C, g/cm^3	ASTM D4052	0.838
Dynamic Viscosity, °C/cP	ASTM D5293	-35°C/6,100
Viscosity, Kinematic (cSt) 100°C	ASTM D445	12.1
Viscosity, Kinematic (cSt) 40°C	ASTM D445	67.7
Viscosity index	ASTM D2270	178
TBN, mgKOH/g	ASTM D2896	8.0
Flash point, COC, °C	ASTM D92	228
Pour point, °C	ASTM D97	-42
HTHS, cP	CEC-L-36-A-90	3.5

The above mentioned characteristics represent mean values.

STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.

HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).

USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.