



TECHNICAL DATA SHEET

SYNTHESIS MOTORCYCLE ENGINE OIL

A range of championship-winning, 100% synthetic, complex ester motorcycle engine lubricants. The Rock Oil Synthesis brand has been around for over 20 years and has become synonymous within the road racing fraternity for supreme performance. Due to our commitment to continuous research and development, the Rock Oil Synthesis series of products are as advanced as ever.

FEATURES

- Tri-Synthetic Formula includes Ester, PAO and a proprietary next-generation base oil
- Longer life to allow extended drain intervals in the most arduous applications and environment
- Market-leading additive technology
- Maintains ultra-clean internal engine components throughout the drain interval
- Outstanding shear stability through the use of active, self-healing Viscosity Modifiers
- Important for maintaining stay-in-grade viscosity and stable oil pressure throughout the life of the product
- Exceptionally low NOACK Volatility
- 3 x lower oil consumption in a high-temperature environment*
- Employs market leading Anti-Wear additives
- Up to 60% reduction in valve-train wear*
- Passes JASO T903 wet clutch friction test to the highest level – JASO MA2 / JASO MA
- Assured use in motorcycle engines with combined crankcase, gearbox and oil-immersed (wet) clutch
- Available in 6 viscosity grades: 5W-30, 10W-30, 5W-40, 10W-40, 10W-50 & 10W-60
- Complete motorcycle OEM recommendation coverage

*Data based on Synthesis Motorcycle 10W-40, compared to API SN test limits and reference oils.

PERFORMANCE SPECIFICATIONS, APPROVALS & RECOMMENDATIONS:

API SN, SM, SL, SJ, SH, SG

JASO MA2 / MA

TYPICAL PHYSICAL CHARACTERISTICS

Grade Name	SYNTHESIS MOTORCYCLE					
Viscosity Grade (SAE)	10W-30	5W-40	10W-40	5W-50	10W-50	10W-60
Density @ 15°C (kg/L)	0.859	0.861	0.861	0.852	0.861	0.861
Viscosity @ 40°C (cSt)	75.4	87.0	106.0	110.6	126.0	165.0
Viscosity @ 100°C (cSt)	11.6	14.6	15.9	18.0	18.7	23.8
Viscosity Index	148	174	160	181	167	175
CCS @ -25°C (cP)	5300	-	6200	-	6100	6300
CCS @ -30°C (cP)	-	6400	-	5400	-	-
NOACK Volatility (%)	4.3	8.0	4.0	10.0	4.0	4.0

Details continue on next page.



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HTHS @ 150°C (cP)	3.6	3.8	4.0	4.5	4.9	5.4
TBN (mgKOH/g)	8.3	8.3	8.3	8.3	8.3	8.3
Appearance	Amber	Amber	Amber	Amber	Amber	Amber
Product Code	04600	03080	03290	03132	03103	03363

This data sheet and the information it contains is believed to be accurate as of the date of creation. Please email technical@rockoil.co.uk or telephone +44 (0) 1925 636191 if you require any further information.