



TECHNICAL DATA SHEET

SYNTHESIS MOTORCYCLE ENGINE OIL

A range of championship-winning, advanced 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, meeting the latest API specification API SP
- 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
- Passes JASO T903:2023 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

PERFORMANCE SPECIFICATIONS, APPROVALS & RECOMMENDATIONS:

API SP, SN, SM, SL, SJ

JASO MA2 / MA

TYPICAL PHYSICAL CHARACTERISTICS

Viscosity Grade:	10W-30	5W-40	10W-40
Density @ 15°C (kg/L):	0.859	0.861	0.861
Viscosity @ 40°C (cSt):	75.4	87.0	106.0
Viscosity @ 100°C (cSt):	11.6	14.6	15.9
Viscosity Index:	148	174	160
CCS @ -25°C (cP):	5300	-	6200
CCS @ -30°C (cP):	-	6400	-
NOACK Volatility (%):	4.3	8.0	4.0
HTHS @ 150°C (cP):	3.6	3.8	4.0
TBN (mgKOH/g):	8.3	8.3	8.3
Appearance:	Amber	Amber	Amber
Product Code:	04600	03080	03290

Details continue on next page.



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Viscosity Grade:	5W-50	10W-50	10W-60
Density @ 15°C (kg/L):	0.852	0.861	0.861
Viscosity @ 40°C (cSt):	110.6	126.0	165.0
Viscosity @ 100°C (cSt):	18.0	18.7	23.8
Viscosity Index:	181	167	175
CCS @ -25°C (cP):	-	6100	6300
CCS @ -30°C (cP):	5400	-	-
NOACK Volatility (%):	10.0	4.0	4.0
HTHS @ 150°C (cP):	4.5	4.9	5.4
TBN (mgKOH/g):	8.3	8.3	8.3
Appearance:	Amber	Amber	Amber
Product Code:	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.