



High Performance Lubricants



Technical Data

Synthesis Motorcycle Engine Oil Series

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 & Development the Rock Oil Synthesis series of products are as advanced as ever.

Features

Tri-Synthetic Formula includes Complex Ester, PAO and a proprietary next generation base oil

Market leading salicylate additive technology

Outstanding shear stability through use of active, self-healing Viscosity Modifiers

Exceptionally low NOACK Volatility

Employs market leading Anti-Wear additives

Passes JASO T903 wet clutch friction test to highest level – JASO MA2 / JASO MA

Available in 5 viscosity grades: 5W-30, 40, 10W-50 & 10W-60

*Data based on Synthesis 4 10W-40, compared to API SN test limits and reference oils.

Benefits

Longer life to allow extended drain intervals in the most arduous applications and environments

Maintains ultra clean internal engine components throughout drain interval

Important for maintaining stay-in-grade viscosity and stable oil pressure throughout the life of the product

3 x lower oil consumption in a high temperature environment*

Up to 60% reduction in valve-train wear*

Assured use in motorcycle engines with combined crankcase, gearbox and oil immersed (wet) clutch

Complete motorcycle OEM recommendation coverage 5W-40, 10W-

Performance Specifications / Approvals:

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

JASO MA2 / MA

Typical Physical Characteristics

Grade Name	XRP SYNTHESIS	SYNTHESIS 4	SYNTHESIS 4	SYNTHESIS 4	SYNTHESIS 4
Viscosity Grade (SAE)	5W-30	5W-40	10W-40	10W-50	10W-60
Density @ 15C (kg/L)	0.856	0.861	0.861	0.861	0.861
Viscosity @ 40C (cSt)	74.0	87.0	106.0	126.0	165.0
Viscosity @ 100C (cSt)	12.2	14.6	15.9	18.7	23.8
Viscosity Index	162	174	160	167	175
CCS @ -25°C (cP)	-	-	6200	6100	6300
CCS @ -30°C (cP)	6200	6400	-	-	-
NOACK Volatility (%)	4.5	8.0	4.0	4.0	4.0
HTHS @ 150°C (cP)	3.7	3.8	4.0	4.9	5.4
TBN (mgKOH/g)	8.3	8.3	8.3	8.3	8.3
Appearance	Amber	Amber	Amber	Amber	Amber
Product Code	03210	03080	03290	03103	03360

Important: Consult Rock Oil Lubricant Selector @ www.rockoil.com to obtain correct product recommendation for your motorcycle. For modified or racing applications, contact Rock Oil Technical Department.

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Made in the UK



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