



# TECHNICAL DATA SHEET

## SYNTHESIS SVI SERIES

The Synthesis SVI range is blended using the finest synthetic base stocks and the latest Carbon friction modifier additive technology. They are unique, ultra-high performance, synthetic racing suspension fluids offering ultimate fade protection and suspension feel. All viscosity grades are suitable for use in the most advanced shock absorbers and forks in on and off-road applications; however, SYNTHESIS SVI 2.5 and 3.5 are typically deployed in shock absorbers, with SYNTHESIS SVI 5 and 6 being used in forks. All Synthesis SVI grades will mix to aid fine suspension tuning.

### FEATURES

- Extremely high viscosity index to maintain damping across a range of operating temperatures.
- Stable under pressure and are compatible with air, nitrogen or argon-charged suspension systems.
- Advanced technologies work synergistically to provide excellent wear protection and extremely low stiction.
- Synthetic thermally stable base oils and shear resistance viscosity modifying polymers result in excellent performance and long service life, especially under extreme conditions.
- Dyno and track proven in short circuit (e.g. British Superbike Series), endurance (e.g. World Endurance) and road course (e.g. Isle of Man TT) applications.

### PERFORMANCE SPECIFICATIONS, APPROVALS & RECOMMENDATIONS:

DIN	51524 pt 3. Type HV
SAE	MS1004
ISO	11158 HV

### TYPICAL PHYSICAL CHARACTERISTICS

Characteristic	Method	UoM	Typical	
Viscosity Grade	-	-	2.5	3.5
Density @ 15°C	ASTM D4052	g/cm <sup>3</sup>	0.8250	0.8150
Kinematic Viscosity @ 40°C	ASTM D445	mm <sup>2</sup> /s	9.066	13.45
Kinematic Viscosity @ 100°C	ASTM D445	mm <sup>2</sup> /s	5.431	7.187
Viscosity Index	ASTM D2270	-	709	617
Flash Point (COC)	ASTM D92	°C	96	156
Pour Point	ASTM D97	°C	< -60	<-60
Foaming Tendency:				
Seq. I/II/III (24°C/93.5°C/24°C)	ASTM D892	mL	10-0/20-0/10-0	10-0/20-0/10-0
Appearance	ASTM D4176-1	-	Clear & Bright	Clear & Bright
Colour	Visual	-	Pale Amber	Pale Amber
Product Code	-	-	05110	05720

Details continue on next page.



# TECHNICAL DATA SHEET

## SYNTHESIS SVI SERIES

Characteristic	Method	UoM	Typical	
Viscosity Grade	-	-	5	6
Density @ 15°C	ASTM D4052	g/cm <sup>3</sup>	0.8388	0.8260
Kinematic Viscosity @ 40°C	ASTM D445	mm <sup>2</sup> /s	15.5	18.50
Kinematic Viscosity @ 100°C	ASTM D445	mm <sup>2</sup> /s	5.96	8.050
Viscosity Index	ASTM D2270	-	400	474
Flash Point (COC)	ASTM D92	°C	190	170
Pour Point	ASTM D97	°C	-48	<-60
Foaming Tendency:				
Seq. I/II/III (24°C/93.5°C/24°C)	ASTM D892	mL	0-0/0-0/0-0	10-0/20-0/10-0
Appearance	ASTM D4176-1	-	Clear & Bright	Clear & Bright
Colour	Visual	-	Pale Amber	Pale Amber
Product Code	-	-	05730	05740

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](mailto:technical@rockoil.co.uk) or telephone +44 (0) 1925 636191 if you require any further information.