



Synesstic™ 8 alkylated naphthalene (Pre-commercial grade)

Synesstic 8 alkylated naphthalene, one of ExxonMobil's API Group V base stocks, can enable formulators to create lubricant formulations that meet the growing need for long-lasting, varnish-free, high-thermal oxidative stability, and excellent hydrolytic stability.

As legislative demands on emissions have increased, global markets too have continued to increase their use of new technologies and new equipment capable of handling higher power densities. In turn, this has necessitated formulators to create higher performing lubricants and greases that can provide improved energy efficiency and extended durability under harsher conditions. Using Synesstic 8 alkylated naphthalene as part of those base oils can be an efficient performance booster in a broad range of lubricant applications.

Grade	SG at 15.6/ 15.6°C	KV at 100°C cSt	KV at 40°C cSt	VI	Pour point °C	Flash point (COC) °C	Color	Water ppm	TAN mg KOH/g
	ASTM D4052	ASTM D445	ASTM D445	ASTM D2270	ASTM D97/ D5950	ASTM D92	ASTM D1500	ASTM E1064/* D6304	ASTM D974 (Mod)
Synesstic 8* (Experimental)	0.891	9.0	70	102	-36	255	<1.5	9	0.01

*Synesstic™ 8 pre-commercial trial results

Alkylated naphthalene

With a unique molecular structure that resists oxidation and prevents the formation of deposits and varnish, alkylated naphthalene is a family of low and high viscosity Group V base stocks that offers superb oxidative, thermal, and hydrolytic stability.



Performance benefits

	Long-lasting, clean performance and deposit control in formulations		High performance in wear protection
	Excellent thermal-oxidation resistance		Controlled seal swell and additive solubility performance
	Excellent hydrolytic and thermal stability		Improved performance under severe conditions
	Low volatility		Improved additive response

Application flexibility

Synesstic alkylated naphthalenes can be used in a broad range of automotive and industrial applications:

- Passenger car and heavy duty diesel engine oils
- Compressor oils
- Industrial gear oil
- Wind turbine gear oil
- Turbine oils
- Hydraulic oil
- Food process machinery oil
- Chain oil
- Greases
- Metal working fluids
- Glass molding fluids



Request a sample!

©2024 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.