

NESTE HIGH-PERFORMANCE BASE OILS



Neste Oil base oils are used in high-performance engine oils and industrial lubricants. The oils are known for their premium quality and reliability even in the most challenging conditions. Marketed under the NEXBASE brand, Neste base oil products are available as hydroisomerized API Group III base oils.

DEVELOPED TO MEET CUSTOMER DEMANDS

As an independent top-tier base oil producer, Neste Oil offers optimized technical solutions to the global lubricant manufacturing industry. The company works in close cooperation with customers, additive manufacturers and OEMs to ensure the products meet all demands.

BETTER FUEL ECONOMY IN ALL CONDITIONS

NEXBASE base oils work reliably and economically even in difficult conditions. They have reduced flow resistance and low friction properties, which offer excellent low temperature fluidity and lower fuel consumption.

LOWER EMISSIONS

With their high oxidation stability, low evaporation and extremely low sulfur content, the oils ensure efficient operation and longer service life of the after-treatment system, as well as a considerable decrease in exhaust gas emissions and particulates.

IMPROVED EFFICIENCY

New emission legislation and catalytic converter technologies demand better performing base oils. Unlike conventional mineral oil based lubricants, NEXBASE products are designed to meet increasingly stringent environmental and performance requirements.

FOR HIGHER PERFORMANCE

The NEXBASE 3000 series offers several viscosity grades for high-performance engine oils and industrial lubricants. NEXBASE oils are colorless, catalytically hydroisomerized and dewaxed, comprising hydrogenated highly isoparaffinic hydrocarbons.

APPLICATIONS

NEXBASE 3030

Hydraulic oil and transmission fluid formulations
Shock absorber oils
Metalworking fluids

NEXBASE 3043, 3060 & 3080

High-quality engine oils
Circulating oils, such as turbine oils
Hydraulic fluids
Gear oils

GLOBAL APPROVALS WITH LOCAL AVAILABILITY

Neste has worked extensively with additive companies to test their slate of base oils. Their NEXBASE oils meet numerous European, Japanese and North American specifications, including those established by ILSAC, ACEA and OEMs. Neste Oil produces NEXBASE base oils in multiple world-scale plants to provide reliability and accessibility.

In addition to the advantage of global approvals, Neste NEXBASE products can be reliably delivered to your door through Renkert Oil's well-established channels.

Contact us for further information about specifications, applications, samples and delivery.

NESTE OIL NEXBASE is a trademark or registered trademark of Neste Oil Corporation.

Renkert Oil, LLC

+1 (800) 423 6457 • +1 (610) 901 0025

www.RenkertOil.com



HYDROISOMERIZED BASE STOCKS

NEXBASE® oils are colorless, catalytically hydroisomerized and dewaxed base oils comprising hydrogenated, highly isoparaffinic hydrocarbons.

NEXBASE 3030 – conforms with API/ATIEL Base Stock Group II and is used for formulating hydraulic and transmission oil products.

NEXBASE 3043 – conforms with API/ATIEL Base Stock Group III and is used in compressor and hydraulic oil formulations, as well as in gear and circulation oils. Suitable for formulating high-quality 5W/X and 10W/X engine oils.

NEXBASE 3060 – conforms with API/ATIEL Base Stock Group III, and is a natural ISO 32 base stock which is used in compressor and hydraulic oil formulations, as well as in gear and circulation oils. Suitable for formulating high-quality engine oils.

NEXBASE 3080 – conforms with ACEA Group III, and is a natural ISO 46 base stock which can be used in compressor and hydraulic oil formulations, as well as in gear and circulation oils. Suitable for formulating high-quality engine oils.

NEXBASE TEST DATA

Typical Properties	Methods	3030	3043	3060	3080
Appearance	ASTM D 4176-1	Bright & Clear	Bright & Clear	Bright & Clear	Bright & Clear
Viscosity at 100°C, cSt, mm ² /s	ASTM D 445	2.9	4.3	5.9	7.9
Viscosity at 40°C, cSt, mm ² /s	ASTM D 445	11	20	32	48
API Gravity, deg.	ASTM D 4052	39.3	38.1	36.9	36.1
Viscosity Index	ASTM D 2270	105	123	128	128
Pour Point, °C	ASTM D 97	-30	-18	-15	-15
Flash Point, °C	ASTM D 92	198	224	240	260
Color	ASTM D 1500	<0.5	<0.5	<0.5	<0.5
Noack Volatility, w-%	CEC L 40 93b	N/A	14.4	5.7	3.5
Density at 15°C, kg/m ³	ASTM D 4052	829	835	841	845

Unless otherwise specified, the test methods referred to are the latest version. Nexbase is a registered trademark of Neste Oil Corporation.

Contact us to request a sample or get more information about specifications, applications and delivery.