

Neste Alkylate gasoline - Join the clean fuel revolution

Simpler seasonal maintenance, longer-lasting engines, less pollution.



NESTE
The only way is forward

Cleaner combustion for small and seasonal engines

Neste Alkylate gasoline is a versatile performance fuel that leads to lower emissions, simpler maintenance and longer engine life. It's formulated for everything from lawn mowers and chainsaws to snowmobiles and outboard-engine motorboats to classic cars that only come out of the garage in the summer.

For 25 years,

we have been producing alkylate gasoline at our refinery in Porvoo, Finland with further processing, fluorine removal and blending taking place in Naantali, Finland. With our end-to-end control of the process, the final product is consistently pure, eliminating the need for constant engine adjustment. It is also **free from hazardous components** like aromatics and benzene. And since our alkylate gasoline is free of corrosive fluorine, engines stay **cleaner, perform better and last longer**.

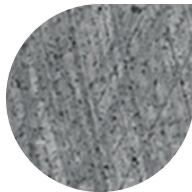
Stability between seasons

With Neste's alkylate gasoline, owners of everything from snowmobiles to lawn mowers to classic cars can **start their engines right up after off-season storage**. That's because alkylate gasoline is so stable that it does not deteriorate and leave engine-clogging residue even after months in the gas tank. So it is not necessary to add a stabilizer or drain the tank and discard the gasoline when the season is over.

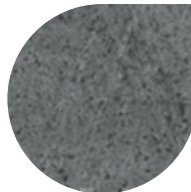


Less wear and tear on engines

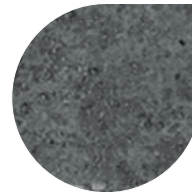
Neste alkylate gasoline **reduces corrosion, excess wear and thermal stresses on engines**. While other alkylate gasoline often contains fluorine, which can cause severe deterioration in the cylinder liner, Neste alkylate gasoline is fluorine-free. It also does not contain heavy hydrocarbons, so combustion is more complete at a lower temperature, which **reduces thermal stresses on the engine**. More complete combustion also means fewer deposits inside the engine. The overall **result is smoother-running, longer-lasting engines**.



Neste Alkylate gasoline
No corrosion/erosion



**Alkylate gasoline with
50 ppm Fluorine content**
Clear corrosion



**Alkylate gasoline with
200 ppm Fluorine content**
Strong corrosion/erosion

Better air quality

Many of the things that give ordinary gasoline its distinctive odor are unhealthy and even cancer-causing. Alkylate gasoline's chemistry is different, with fewer volatile chemicals like benzene, which is a carcinogen. **This makes it safer to handle.** For forestry and gardening professionals who are constantly exposed to fuel fumes while working it is a **significant improvement in air quality**. According to research by the Finnish Institute of Occupational Health, emissions from alkylate gasoline are less carcinogenic than emissions from ordinary gasoline or gasoline-ethanol mixtures.

Tailor-made products

Need a customized product, lab tests or other technical service? Neste's long experience with fuels and engines means we have dedicated technical experts ready to support you. We would be happy to discuss options with you.

Alkylate gasoline excels in multiple usages including:



Gardening



Classic cars, sports cars and indoor go-carts



Forestry



Outboard engines



Snowmobiles and four-wheelers

Product specification

Alkylate gasoline

PROPERTY	NESTE ALKYLATE GASOLINE SPEC	NESTE ALKYLATE GASOLINE TYPICAL VALUE	STANDARDS SWEDISH SS155461 OR SWISS SN181163	MOTOR GASOLINE EN 228
Density kg/m3	680 – 720	690	680 – 720	720.0 – 775.0
Lead mg/l	< 2	<1	≤ 2,0	≤ 5.0
Benzene vol-%	≤ 0.09	< 0.01	< 0.10	≤ 1.00
Aromatics vol-%	≤ 0.49	< 0.21	< 1.0	≤ 35.0
Olefins vol-%	≤ 0.49	< 0.1	< 1.0	≤ 18.0
Sulphur mg/kg	< 10.0	1	≤ 10.0	≤10.0
RON	≥ 93.0	94	≥ 93.0	≥ 95.0
MON	≥ 90.0	91	≥ 90.0	≥ 85.0
Copper corrosion	1	1	1	1
Vapour pressure kPa	55 – 65	57	55.0 – 65.0	60.0 – 90.0
Distillation				
Boiling E70 vol-%	15 – 42	27	15.0 – 42.0	22.0 – 52.0
Boiling E100 vol-%	46 – 72	46	46.0 – 72.0	46.0 – 72.0
Boiling E150 vol-%	> 75	97	≥ 75.0	≥ 75.0
Boiling E180 vol-%	> 95	98	Not specified	Not specified
Final boiling point °C	≤ 200	180	≤ 200	≤ 210

Neste Alkylate gasoline **meets or exceeds** the quality control criteria defined by Finnish, Swedish and Swiss legislations. We have proposed a European wide standardization to ensure a fair and quality guaranteed market.



Neste in brief

Neste (NESTE, Nasdaq Helsinki) creates sustainable solutions for transport, business, and consumer needs. In 2018, it placed 2nd on the Global 100 list of the most sustainable companies in the world. Our wide range of renewable products enable our customers to reduce climate emissions. We are the world's largest producer of renewable diesel refined from waste and residues, introducing renewable solutions also to the aviation and plastics industries. We are also a technologically advanced refiner of high-quality oil products. We want to be a reliable partner with widely valued expertise, research, and sustainable operations. In 2017, Neste's revenue stood at EUR 13.2 billion. Read more: neste.com

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