



## SONGNOX<sup>®</sup> L670

Nonylated diphenylamine antioxidant for cutting edge protection and security.

SONGWON has established a range of industry standard aminic, phenolic, phosphite and thioester antioxidants to meet the needs of the lubricant industry.

### Wide range of antioxidants



Production and supply of industry standard automotive aminic, phenolic, phosphite and thioester antioxidants

Customized solutions for numerous applications

World class production facility in Asia

### Comprehensive technical knowhow



Continuous innovation to meet new industry standards and product requirements.

### Proven reliability



More than 50 years' manufacturing experience in South Korea.

Backward integration of key raw materials.

Global sales organization channels in Asia, Europe and North America.

### Strong commitment



Continued investment in production facilities for both the aminic and phenolic product ranges.

Local logistical supply.

## The synergistic effects of SONGNOX® antioxidants boost performance in automotive and industrial applications

SONGNOX® L670 and SONGNOX® L135 are used together in formulations to retard oxidation in engine oils, helping to extend drain intervals, maintain viscosity, reduce deposit and foam formation, safeguard against corrosion, and protect oil at high temperatures.

SONGNOX® L670 and SONGNOX® L135 are highly suitable for the stabilization of automotive formulations such as passenger car motor oils (PCMO), heavy duty diesel engine oils (HDDEO), automatic transmission fluids (ATF) and gear oils (GO).

Other applications include compressor, gear, turbine, metal- working oils and greases, for both mineral and synthetic oils.

SONGNOX® L670 has NSF been given approval for use in blending food grade lubricants with incidental food contact, at a level not to exceed 2.0% by weight.

SONGNOX® L670 meets the European Ecolabel criteria for lubricants and is featured on the Lubricant Substance Classification List (LuSc-list).

## Aminic and Phenolic Antioxidants

SONGNOX® antioxidants suitable for automotive and other lubricant applications

			Gasoline engine oils	Diesel engine oils	ATF	ETF	Gear & axle oils	Compressor oils	Hydraulic oils	Metalworking fluids	Turbine oils	Greases	Marine Lubricants	Vegetable Base Oils	Fuels	Heavy Petroleum distillates
<b>SONGNOX® L670</b> Bis(nonylphenyl)amine CAS No: 36878-20-3 LQ		Nonyl diphenylamine antioxidant	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>SONGNOX® L135</b> Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters CAS NO. 125643-61-0 LQ		390	■	■	■	■	■	■	■	■	■	■	■	■	■	■

**ATF:** automatic fluid; **ETF:** electrified transmission fluid. ■ Recommended. □ Suitable.

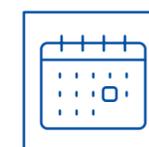
### Storage conditions



SONGNOX® L670 and SONGNOX® L135 antioxidants are supplied in liquid (LQ) form.

The materials should be stored indoors, in closed containers, in a dry place at temperatures between 5 and 40°C.

### Shelf life



SONGNOX® products are stable for 24 months, provided they are stored under the conditions described above.





For further information, please contact:

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SONGWON provides customers with warranties and representations as to the chemical or technical specifications, compositions and/or the suitability for use for any particular purpose exclusively in individual written agreements.

The facts and figures contained herein have been carefully compiled to the best of SONGWON's knowledge but are essentially intended for informational purposes only.

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It's all about **the chemistry<sup>®</sup>**

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