



ROSTABIL SERIES

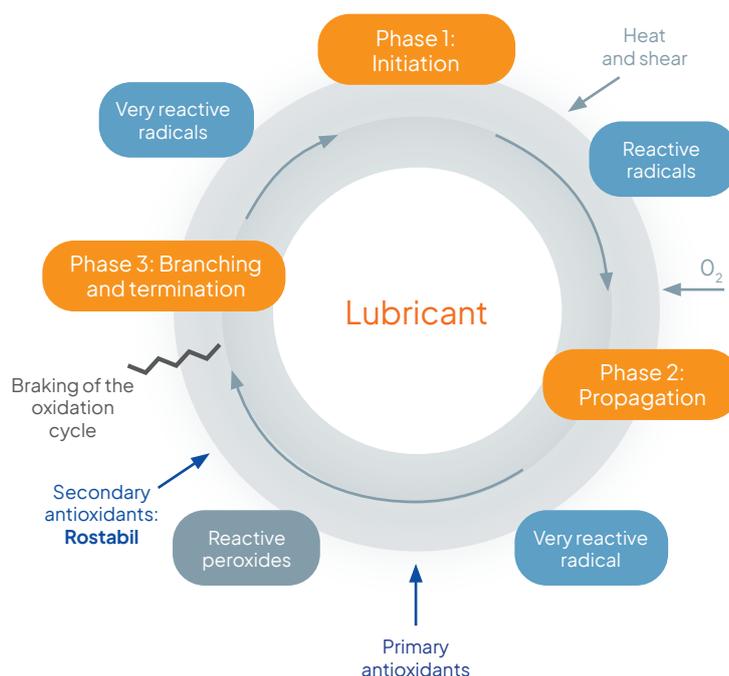
SECONDARY ANTIOXIDANTS

GENERAL INFO & USES

ROSTABIL series of products are phosphite-based secondary antioxidants, which can be successfully implemented in a broad range of lubricants. Synthetic lubricants, especially hydrocarbon-based lubricating oils, are susceptible to degradation when exposed to oxygen. The addition of antioxidants are a critical component to reduce the rate of thermal degradation of the lubricant. The increased oxidative resistance allows the formulated lubricants to be used at high temperatures. Additionally, antioxidants tend to lower the risk of sludge and varnish formation.

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A combination of primary and secondary antioxidants are usually applied to maximize the protection against oxidative degradation. Both classifications of antioxidant perform a different role in inhibiting oxidation. Primary antioxidants are known as radical scavengers. They quickly react with free radicals at the propagation phase, reducing the effects of degradation by creating more stable radicals. Secondary antioxidants perform a complementary action by reacting with peroxides which develop when the lubricating oil encounters oxygen. This reaction stops the oil degradation cycle and prevent the propagation of other undesirable reactions. **Rostabil series** of products function as secondary antioxidants.



TYPICAL PROPERTIES

Product name	Chemical name	Appearance	Colour	Density (at 25°C)	Acid value	Phenol content
		Visual method	ASTM D1209	EN ISO 2811	In-house method	In-house method
		—	Hazen	g/cm ³	mgKOH/g	% (w/w)
Alkyl phosphites						
Rostabil TDP	triisodecyl phosphite	colourless, homogenous liquid	max 50	0.887	max 0.1	max 0.1
Rostabil TTD	triisotridecyl phosphite	colourless, homogenous liquid	max 100	0.884	max 0.2	max 0.1
Alkyl-aryl phosphites						
Rostabil DDPP	diiisodecyl phenyl phosphite	colourless, homogenous liquid	max 100	0.947	max 0.1	max 1
Rostabil DPDP	isodecyl diphenyl phosphite	colourless, homogenous liquid	max 100	1.030	max 0.1	max 1
Aryl phosphites						
Rostabil TNF	tris(nonylphenyl) phosphite	slightly coloured, homogenous liquid	max 150	0.975	max 0.3	—



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The information in the catalogue is believed to be accurate to the best of our knowledge, but should be considered as introductory only. Detailed information about our products is available in TDS and MSDS. Suggestions for product applications are based on the best of our knowledge.

The responsibility for the use of products in conformity or otherwise with the suggested application and for determining product suitability for your own purposes rests with the user.

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**European
Funds**
Smart Growth

European Union
European Regional
Development Fund



The product was developed as part of a research and development project co-funded by the European Union, from the European Regional Development Fund.

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*More than
Chemistry*