

The background of the entire page is a high-quality, artistic photograph of golden-brown liquid droplets. These droplets are of various sizes and are captured in a dynamic, mid-motion state, creating a sense of fluidity and movement. They are set against a clean, white background, which makes the vibrant color of the liquid stand out. The lighting is soft, highlighting the glossy, reflective surfaces of the droplets.

Rostabil Series

Secondary antioxidants

Local. Global. Integrated.

General info & uses

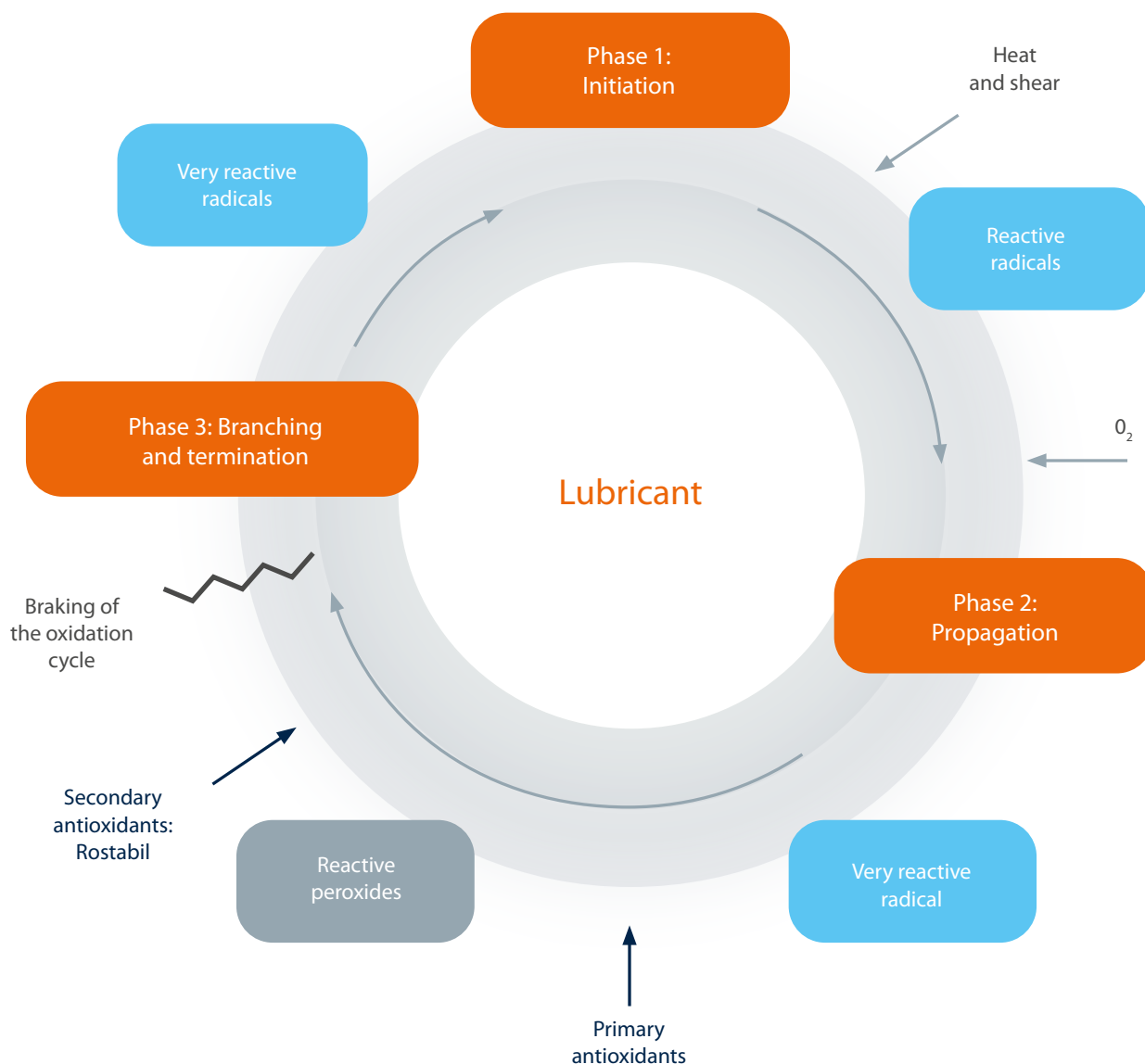
Rostabil Series of products are phosphite-based secondary antioxidants, which can be successfully implemented in a broad range of lubricants. Synthetic lubricants, especially hydrocarbon-based lubricating oils, are susceptible to degradation when exposed to oxygen. The addition of antioxidants are a 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.

Rostabil Series

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	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 TTDP	triisotridecyl phosphite	colourless, homogenous liquid	max 100	0.884	max 0.2	max 0.1

Alkyl-aryl phosphites

Rostabil DDPP	diisodecyl 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 and compiled to the best of our knowledge; however, it should be considered as introductory only. Detailed information about our products is available in TDS and MSDS.

The suggestions for product applications are based on our best knowledge.

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

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