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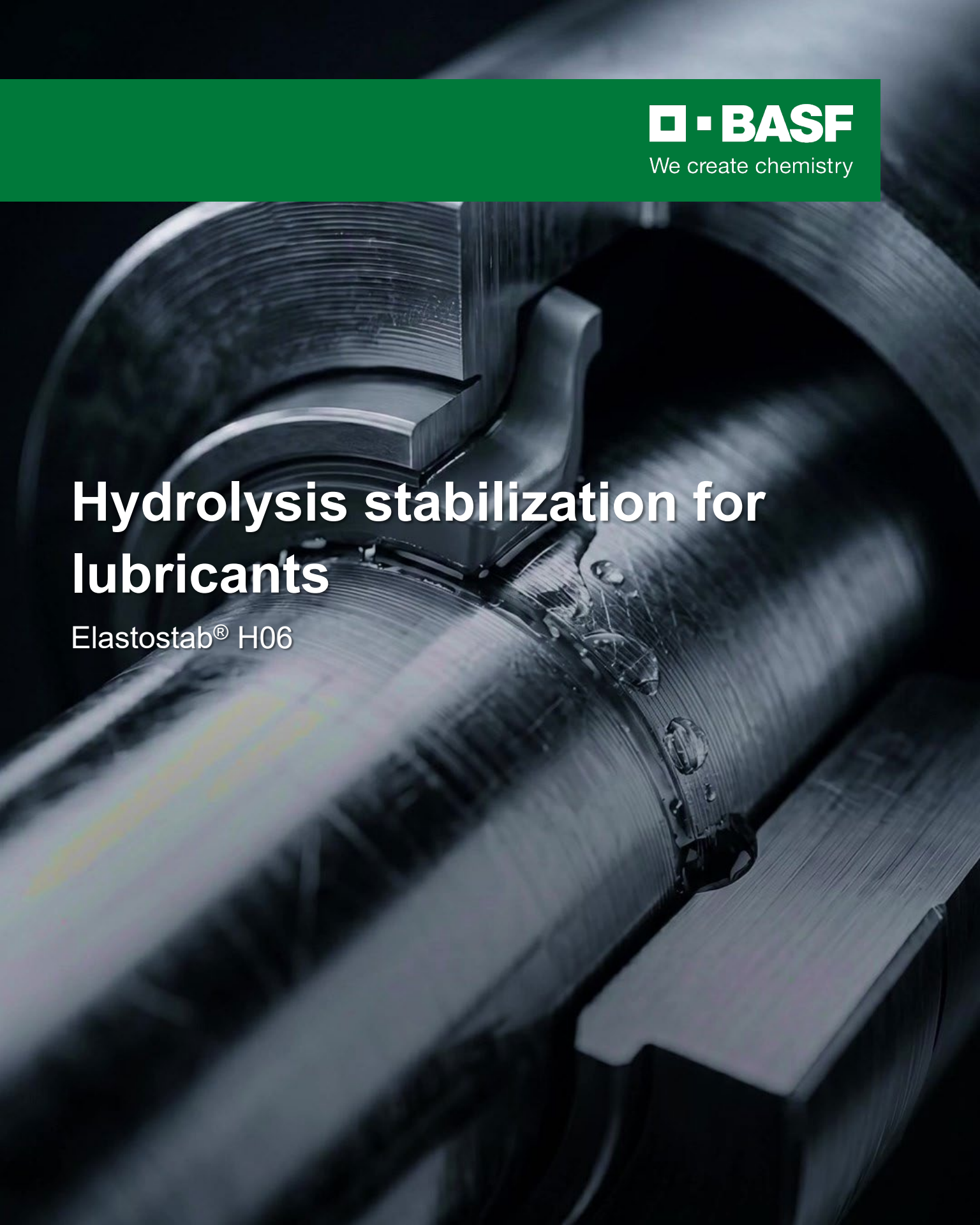


Hydrolysis stabilization for lubricants

Elastostab® H06

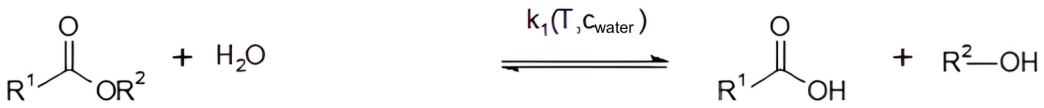
BASF Elastostab® H06

Designed to extent lubricant lifetime

Elastostab® H06 is a performance additive designed for **hydrolysis stabilization**. It enables **reliable performance** of ester-based components **in lubricants** over time in wet environments.

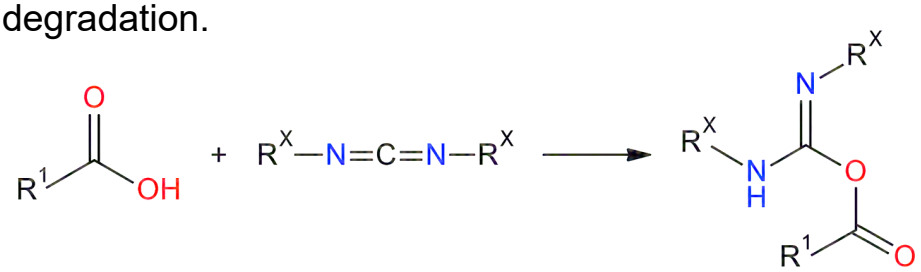
What happens during hydrolysis?

Hydrolysis means splitting a chemical bond with water. As shown in the reaction below, an ester reacts with water and breaks down into a carboxylic acid and an alcohol. The water molecule takes part in the reaction and becomes incorporated into the newly formed products.



How does hydrolysis stabilization work?

During hydrolysis, carboxylic acid groups can be formed. Elastostab® H06 reacts with these acid groups and converts them into more stable structures. This reduces the amount of reactive acid in the system and helps slow down further degradation.



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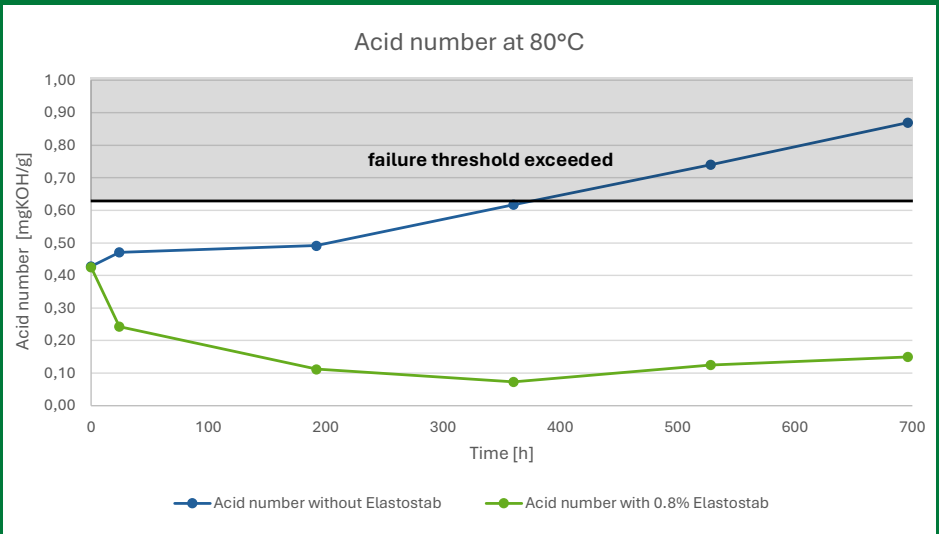
Elastostab® H06

Results acid number test

Acid Number comparison:

0.8% Elastostab® in ester with 2% water at 80°C

→ The Acid Number of the Ester with Elastostab® is drastically reduced



Properties of Elastostab® H06

- Elastostab® is a performance additive designed for **hydrolysis stabilization**
- Enables reliable performance of ester-based components in lubricants over time in wet environments.
- Elastostab® H06 is a non-classified additive in accordance with GHS criteria
- Composiotion is >30% bio-based

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General Productinformation ELASTOSTAB® H 06

® = registered trademark of BASF Polyurethanes GmbH

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Characteristic:

Hydrolysis stabilizer for Polyester-Polyurethane

Property	Unit	Value	Test method according to
Carbodiimid-content	%	**≥ 9**	BASF
Iodine color scale		**≤15**	DIN 6162
Density	g/cm³	**1**	DIN EN ISO 1183-1-A
Appearance	-	**viscose, yellowness liquid**	-
Viscosity (50°C)	mPas	**2000**	DIN 53019
NCO-Gehalt	%		BASF

These are general guidance data. No statement regarding specific properties. All supplies are subject to detailed specifications to be agreed-up in each individual case and containing, among others, the tolerances to be specified therein.

Storage and Processing

In cool and dry storage conditions and in the original, undamaged and sealed containers, the products are processable for at least 12 months from delivery date. Thereafter, we do not give any warranty or guarantee regarding the processability of the products. Warranties regarding buyer´s rights in case of defects remain unaffected hereby

Hazard indication:

No particular hazards known. Please have a look at the Material Safety Data Sheet before handling.

Waste Disposal:

More detailed information is provided in our country-specific pamphlet and the Material Safety Data Sheet.

Important Information:

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Please notice that this product is not intended for food contact applications.

For additional information please contact our Sales Office:

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Safety data sheet Elastostab H06.pdf

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