

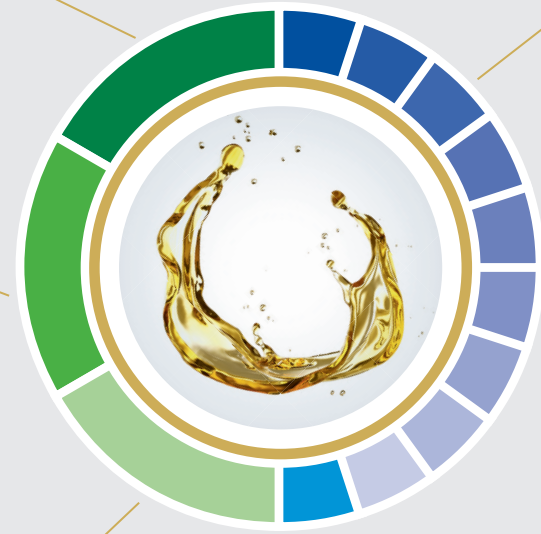
BASF Lubricant Base Stocks and Additives

PAG Base Stocks

- Water-Soluble PAG Base Stocks
- Water-Insoluble PAG Base Stocks
- High Viscosity PAGs (Thickeners)

Ester Base Stocks

- Monoesters
- Diesters
- Polyolesters
- Complex Esters



Lubricant Additives

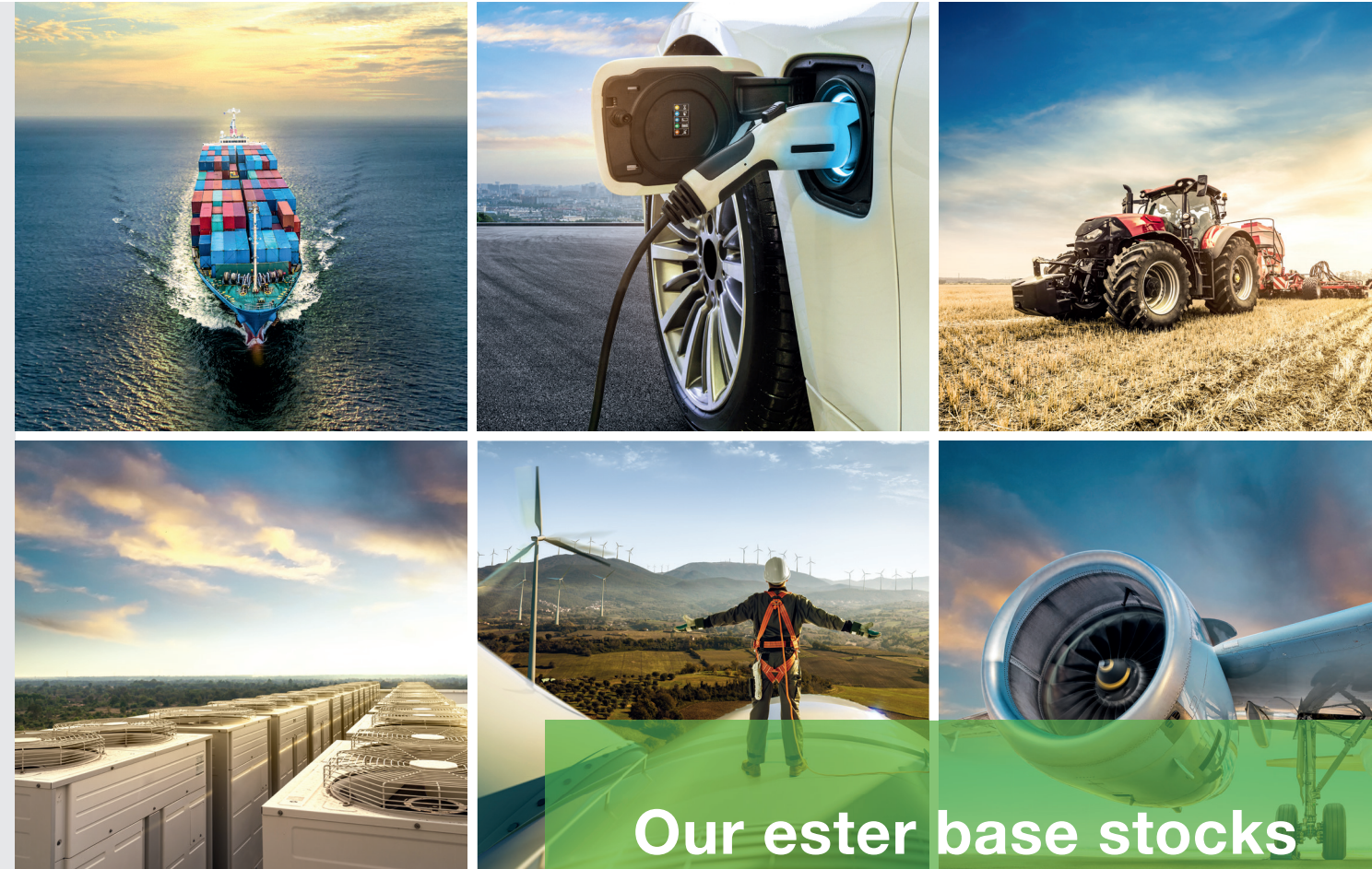
- Antioxidants
- Viscosity Index Improvers
- Pour Point Depressants
- Friction Modifiers
- Anti-wear / Extreme Pressure Additives
- Corrosion Inhibitors
- Metal Deactivators
- Components for Metalworking Fluids

Polyisobutene

- Low Molecular Weight PIB
- Medium / High Molecular Weight PIB

Industrial Additive Packages

- Hydraulic Packages
- Turbine Packages
- Gear Packages



Our ester base stocks
keep machinery moving

As a leading global supplier of lubricant base stocks and additives, we are passionate about partnering our customers with strong expertise and best-in-class solutions to meet market requirements today and tomorrow. We are unique in the lubricant industry, offering a broad and extensive portfolio to support the wide range of lubricant applications and enable performance, quality and innovative growth.

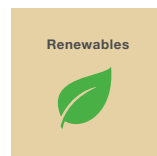
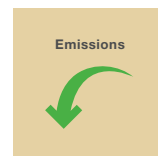
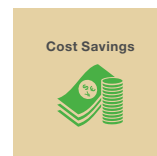
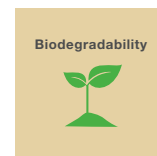
Ester base stocks have unique tailored molecular structure to achieve desired performance for target application and offer a variety of performance advantages over mineral oil and other synthetic base stocks. BASF offers a broad portfolio of Synative® ester base stocks delivering excellent technical performance in a wide range of automotive and industrial applications.

Our high performance and reliable components support the drive towards improved fuel economy, extended equipment lifetime and sustainable solutions. Looking to tomorrow, we are committed to continuously developing products that meet the emerging needs of our customers. Leveraging our global production footprint, strong R&D competence and sustainability expertise, BASF is the ideal partner to fulfill your lubricant component needs.

SYNATIVE® ES 2813

Performance highlights

- Excellent low-temperature properties
- Low friction
- High thermo-oxidative stability
- Low volatility
- Highly biodegradable
- 100% renewable content*
- Measurable CO₂ savings*



Key benefits

- High performance for extended equipment life
- Low coefficient of friction and good VI for high energy efficiency
- Excellent thermal properties allowing broad operating temperature range and clean operations
- Polar Ester groups leading to good lubricity, very low volatility, high flash point and excellent solvency
- Excellent biodegradability, very good toxicity profile and renewable content of up to >90%



Get in contact
with us

Asia

BASF (China) Company Ltd.
Fuel and Lubricant Solutions
No 300, Jiangxinsha Road,
Pudong, Shanghai 200137, China

Europe

BASF SE
Fuel and Lubricant Solutions
Carl-Bosch-Str. 38
67056 Ludwigshafen, Germany

North America

BASF Corporation
Fuel and Lubricant Solutions
100 Park Avenue, Florham Park,
NJ 07932, USA

South America

BASF SA
Av. Nações Unidas, 14.171 – 11° andar
São Paulo, 04794-000, Brazil

**BASF SE
Lubricant Components**
basf.com/lubricant-components

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BASF
We create chemistry

Ester Base Stocks Selection Guide

Europe, Middle East and Africa (EMEA)

BASF Lubricant Components
Make the difference



* for BMB grade

