

# Moving sustainability forward

**BASF**

We create chemistry



## SYNATIVE® ES 1200 Superior high viscosity base stocks

When **sustainability and performance** matter - BASF Lubricant Components make the difference. With developing industrial and transportation technologies, even more is expected from lubricants in terms of top performance at a wide range of temperatures and improved sustainability profile. Therefore, BASF has developed a very high viscosity, fully saturated complex ester that offers premium performance and full biodegradability: SYNATIVE® ES 1200



**SYNATIVE® ES 1200**

Makes the difference

### Customer benefits

- Improved energy efficiency
- Biodegradable
- High renewable content
- Good solubility for lubricant additives
- Excellent performance benefits

Energy



7 13 UN SDG

Biodegradability



15 UN SDG

Renewables



15 UN SDG

## Combining sustainability targets with superior performance

SYNATIVE® ES 1200 is a high viscosity saturated ester which shows excellent performance as a base stock in various industrial and marine applications. SYNATIVE® ES 1200 exhibits superior friction properties providing excellent lubricity and potential for improved energy efficiency. SYNATIVE® ES 1200 has excellent thermal, oxidative, hydrolytic and shear stability, is compatible with low viscosity PAOs, mineral oils and other ester base stocks and provides good solubility of lubricant additives. It is readily biodegradable and contains a high level of renewable content (>85%). SYNATIVE® ES 1200 is an excellent choice in applications needing improved energy efficiency, biodegradability, renewability and service life.



## Performance highlights

SYNATIVE® ES 1200 is especially suited for formulating high performance lubricants for industrial gears, transportation applications, chains and metal working fluids by providing following benefits:

- Shear stability
- Good thermal, oxidative and hydrolytic stability
- High viscosity index
- Low pour point
- Good solubility for lubricant additives

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with us



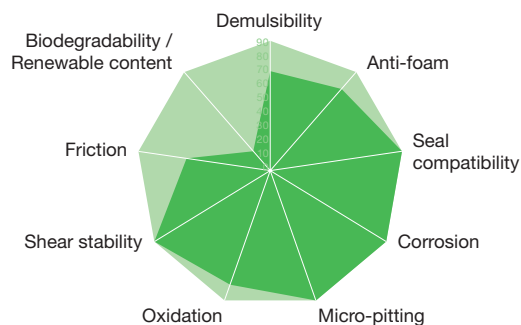
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## SYNATIVE® ES 1200

## Boosting the sustainability performance

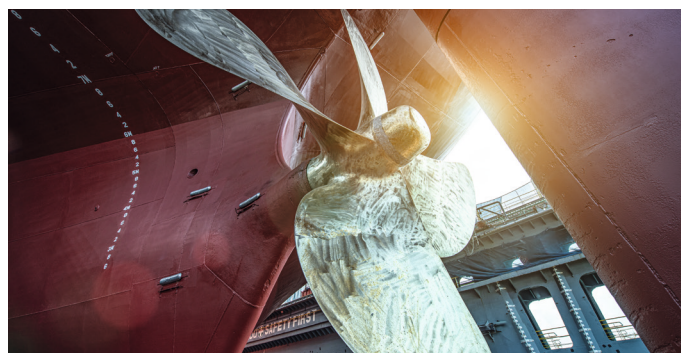


■ Gear oil formulated with Synative® ES 1200 ■ Commercial top tier PAO gear oil

## SYNATIVE® ES 1200

## Product properties

Viscosity @ 40 °C (mm² / s)	1200
Viscosity @ 100 °C (mm² / s)	100
Viscosity index	177
Density @ 20 °C (g / cm³)	0.954
Pour point (°C)	≤ 27
Flash point CoC (°C)	292
Fire point (°C)	360
TAN (mgKOH / g)	≤ 1
OHV (mgKOH / g)	≤ 15
Iodine value (g I / 100 g)	≤ 2
Moisture (ppm)	≤ 1000
Aniline point (°C)	35.9



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Lubricant Components

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