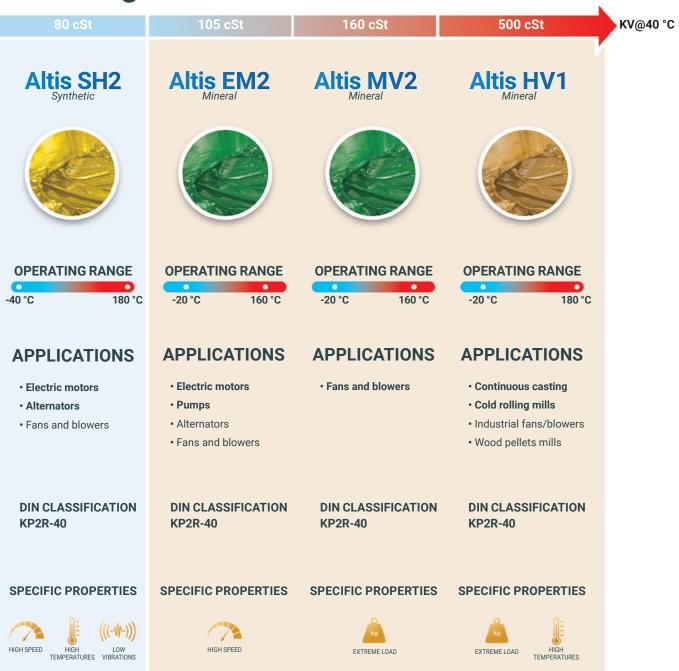


## Altis The reference grease for high speed and high temperature

### Altis range



#### A major player

With our production, supply chain and commercial presence in more than 160 countries, we deliver a full range of lubricants.

#### Support and partnership

Thanks to local technical presence, we provide a high level of service to optimize your Total Cost of Ownership.

#### References & OEMs

TotalEnergies Lubrifiants cooperates with equipment manufacturers to create high-technology products for optimal performance and production of your machinery.



#### **Innovation** & Research

TotalEnergies Lubrifiants invests in biotechnologies to find the most suitable components to reach energy efficiency through formulations designed in our Research Centers.



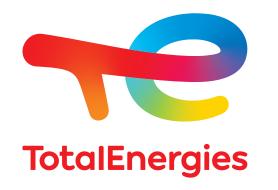
# **Altis**

The reference grease for high speed and high temperature

Reliable solutions for energy savings

#### **Quality and environment**

TotalEnergies Lubrifiants ISO 9001 and 14001 certifications are the guarantee of a long term commitment to quality and environment. From the initial design stage, our R&D teams seek to develop products that minimize toxicity risks and environmental impact.





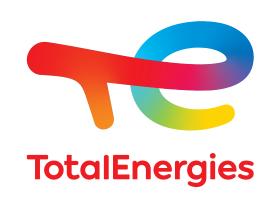


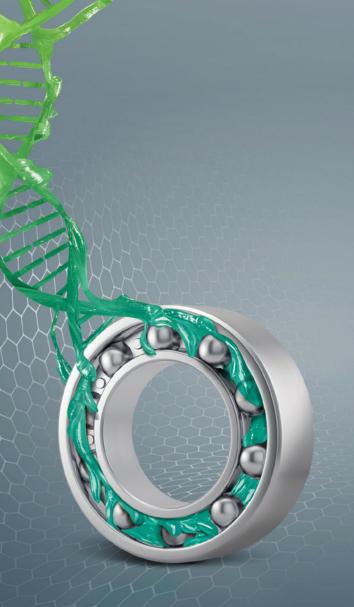


TotalEnergies Industry Solutions

ms.industry@totalenergies.com

Safety Data Sheets are available at ms-sds.totalenergies.com





# Altis greases

Driven by **innovation** and commitment, TotalEnergies Lubrifiants offers distinctive **polyurea** greases to meet the challenges of the industry in constant motion.

The unique properties of **Altis** grease structure make them **the reference** in fill for life bearings, mechatronic systems and electric vehicle motors.





**ENERGY** 

**SAVINGS** 

This exclusive chemical structure enables a better

lubrication, **less heat generated** by internal friction

Vibrations have been reduced by a 10 factor.

and a reduction of the energy consumption.

The lower internal friction leads to low vibrations level

Li complex

(((-\|\-\))) LOW VIBRATIONS

and less vibrations.

#### **TotalEnergies Lubrifiants:**

your preferred supplier providing a full range of high quality greases.

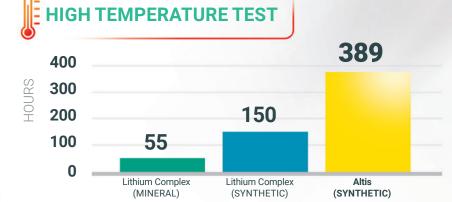
Our commitment is to **consistently** support our customers with the development of innovative and efficient solutions.

# Altis **Technology on the move**





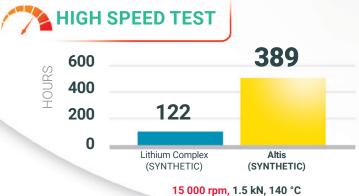




6000 rpm, 1.5 kN, 160 °C

Standard FAG FE9

FAG FE9 endurance test proves high reliability of Altis greases. Altis range provides long service life even at high temperatures and high shears.

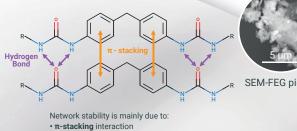


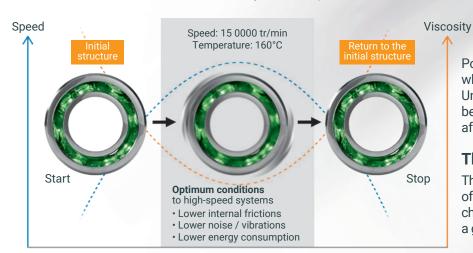
Thanks to its distinctive thickener, Altis EM2, Altis MV2 and Altis SH2 greases perform in high-speed bearings such as in electric motors, fans and blowers.





Our grease specialists developed a distinctive polyurea thickener which is characterized by a thixotropic behavior.





Polyurea thickener is an organic thickener whose hydrogen bonds enable reversibility. Under shear the grease changes its rheologic behavior and returns to its original state after service.

#### Thixotropic behavior:

The exceptional long-life performance of polyurea greases is resulting from the chemical configuration which provides a good network stability.