

Beauty of Additives in a nutshell

Meeting the Management

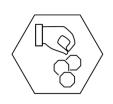
Agenda

1 Beauty of Additives in a nutshell

2 Why Polymer Additives are attractive

Why Lubricant Additives are amazing



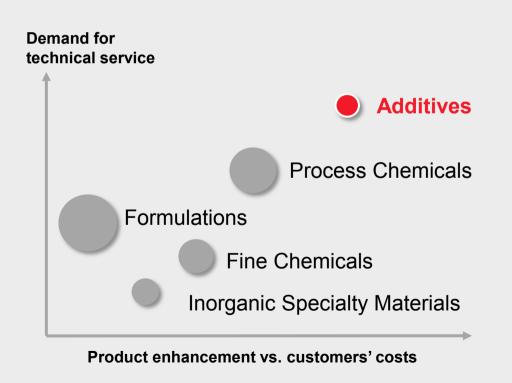


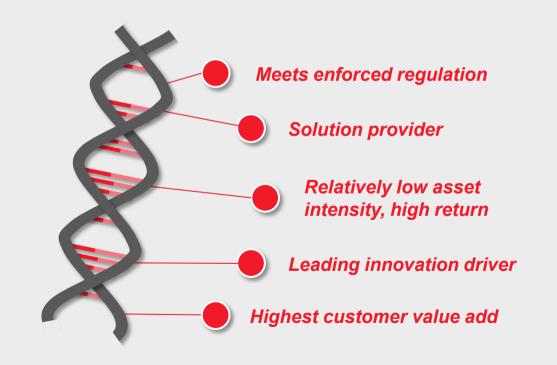
Beauty of Additives in a nutshell



Additives constitute a very attractive product group in the specialty chemical industry

LANXESS Additives "DNA" with very attractive business characteristics





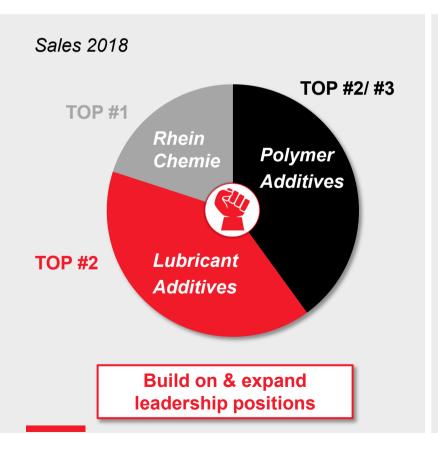
Specialty Additives cater various end markets with a balanced global footprint

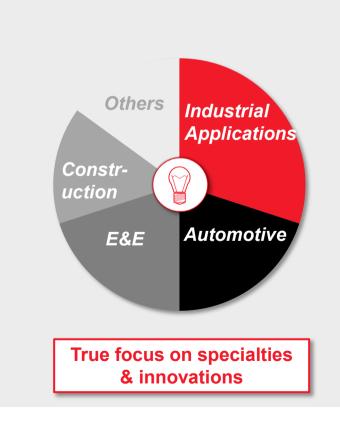


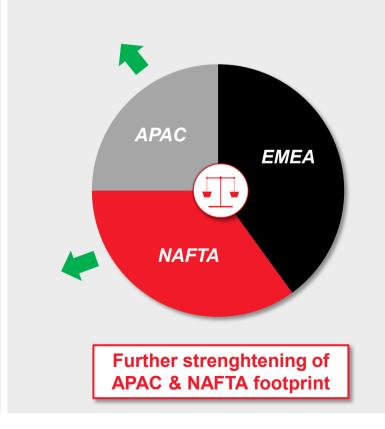
Leading players in diverse and growing end markets

Well balanced end market split

Strong footprint in growth regions







Specialty Additives – Successful business set-up with a clear strategic approach



BU Polymer Additives

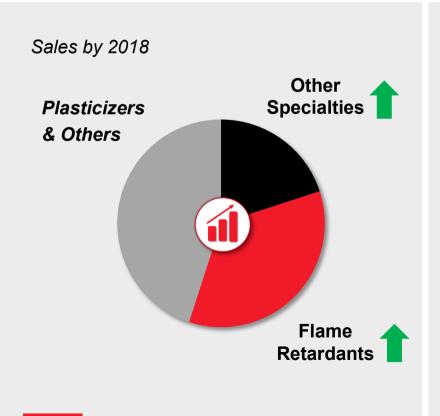
Leverage growth from higher regulation & batteries

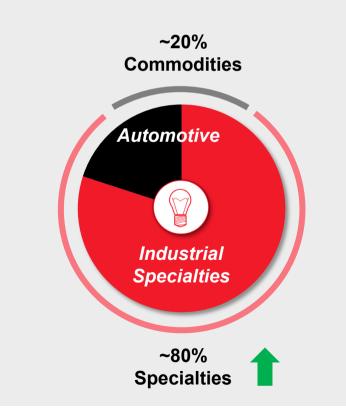
BU Lubricant Additives

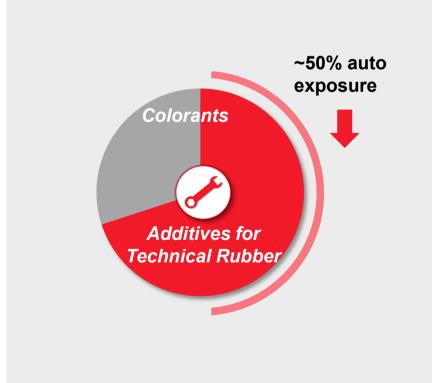
Further innovate and specialize the portfolio

BU Rhein Chemie

Reduce auto dependency and further realignment







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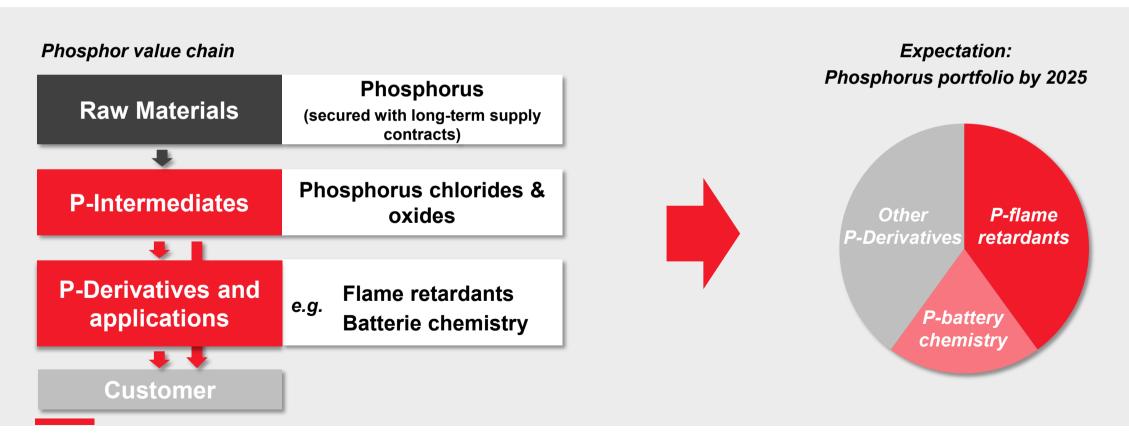
Why Lubricant Additives are amazing



Leading manufacturer of phosphorus derivatives

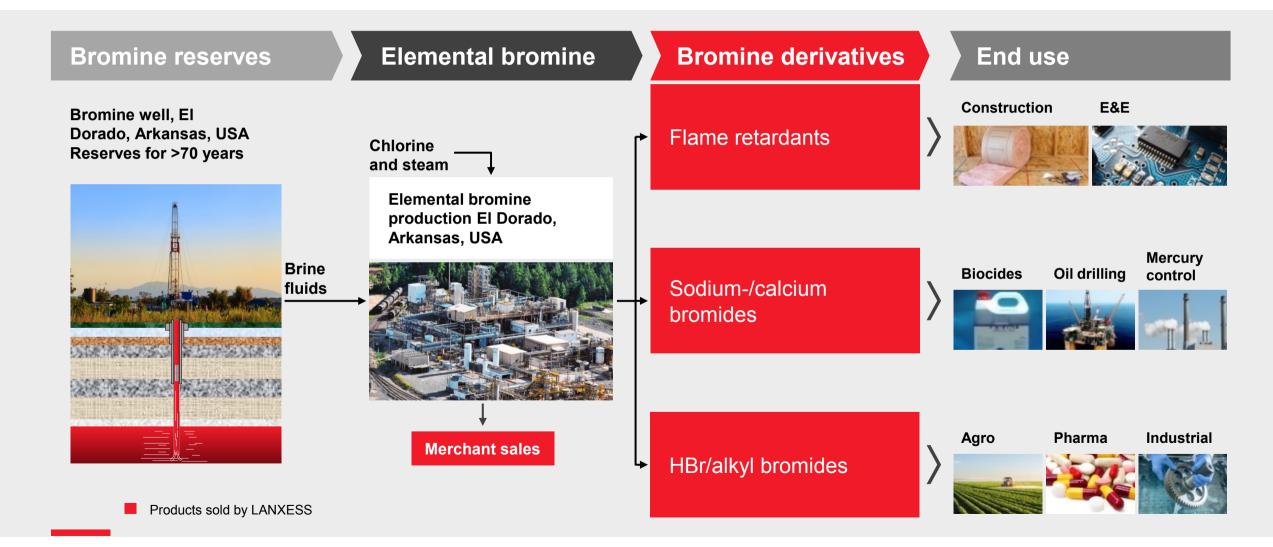


Comprehensive supply for rising demand in phosphorus flame retardants and batteries



Extracting value by pursuing the whole value chain from one of the most efficient bromine resources

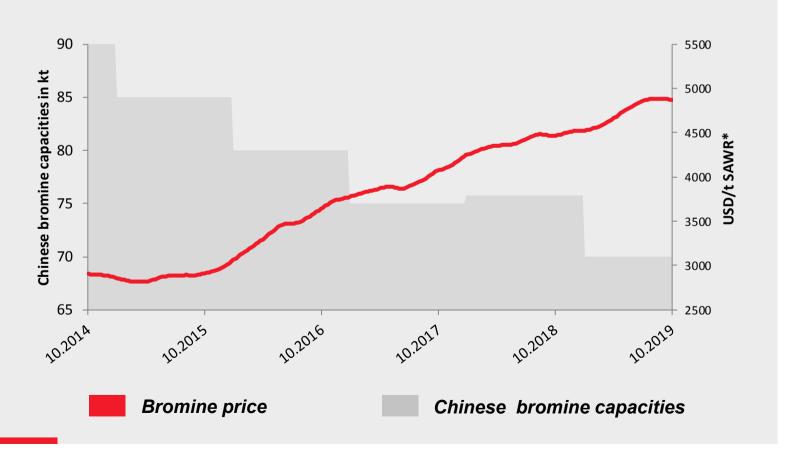




LANXESS benefits from structural changes in the Chinese bromine market



Chinese bromine resources continuously exhaust and face rising regulatory pressure

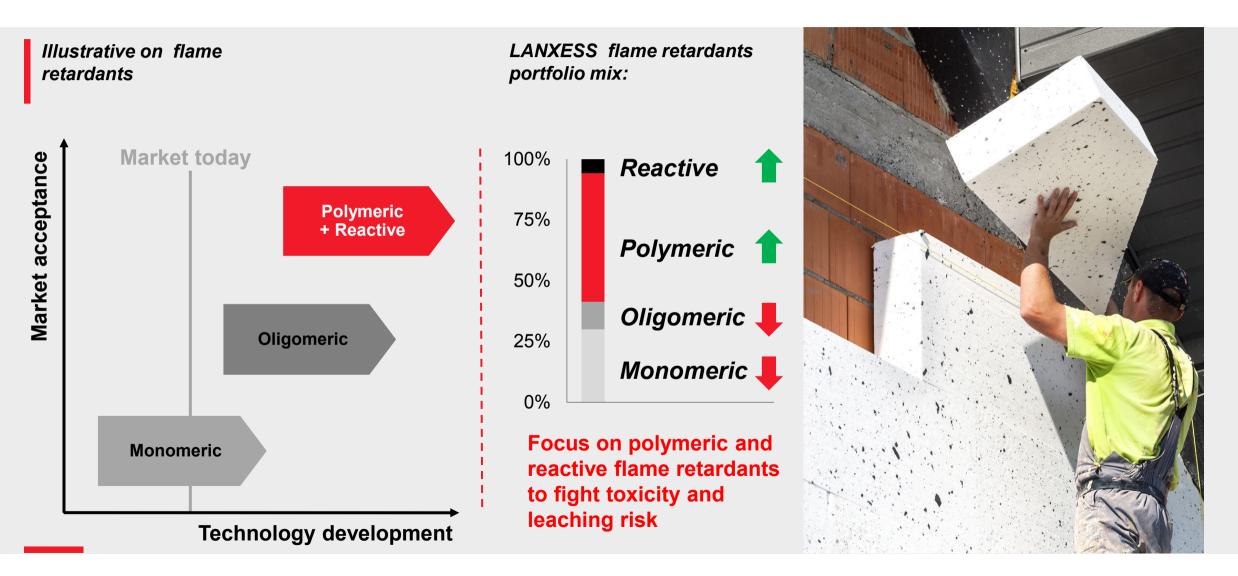


APAC with attractive growth opportunities:

- Chinese bromine demand grows while resources continuously decline
- LANXESS meets rising environmental standards in China
- Huge logistics infrastructure for bromine transportation

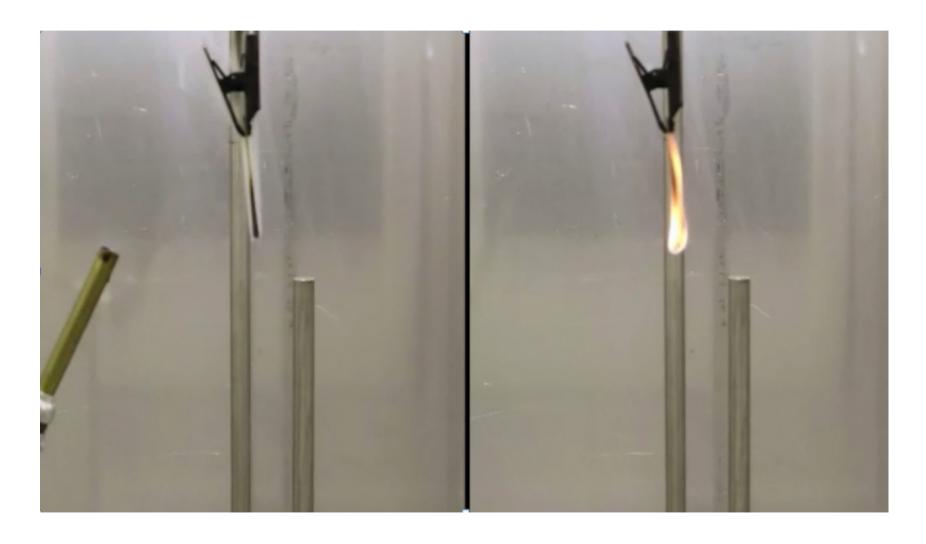
Flame retardants well prepared for tightening regulation Strategic focus on developing sustainable FR





There is no alternative to the powerful characteristics of flame retardants





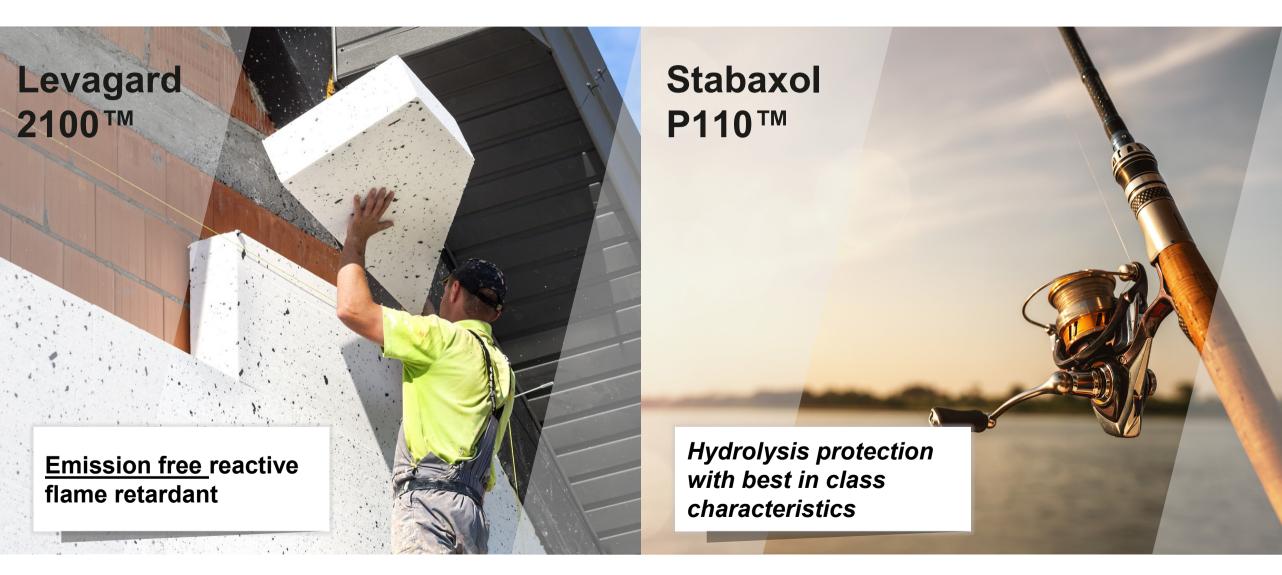
LANXESS provides cutting-edge plasticizers and phosphorus specialties





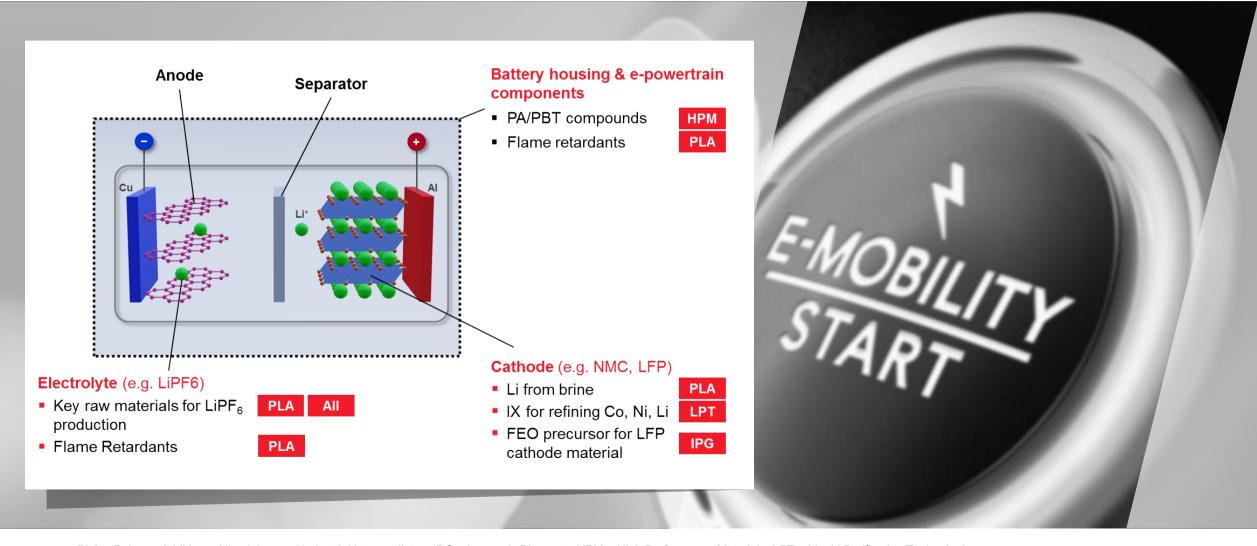
Polymer Additives even goes one step further...





Polymer Additives sees growth opportunities driven by demand for batteries





Polymer Additives to strengthen its leadership position in flame retardants and battery solutions



Strategy execution

Foster leadership position in flame retardants by leveraging regulatory challenges with innovative solutions

Applied innovation

Leverage on strong R&D pipeline to expand application portfolio and further reduce volatile organic emissions

Growth driver

Focus on future growth areas of bromine and phosphorus chemistry in APAC region



LANXESS saves your life

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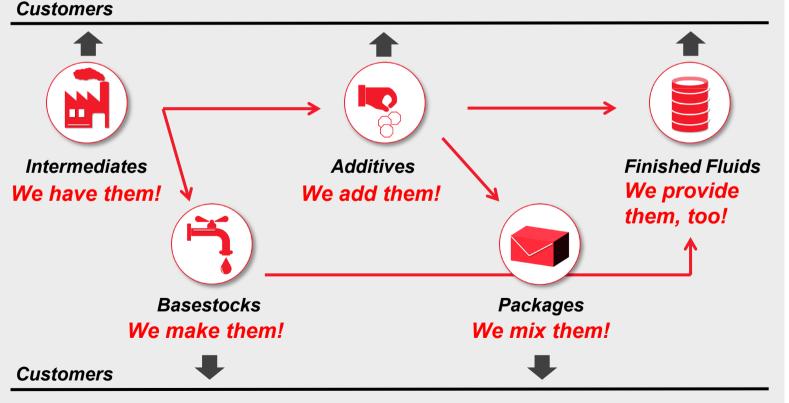


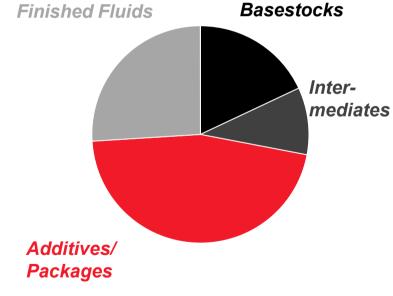
Lubricant Additives benefit from unique integrated value chain and innovation power



Backward integrated one-stop-shop for specialized industrial additive solutions with leading market positions

Lubricant Additives
Sales 2018

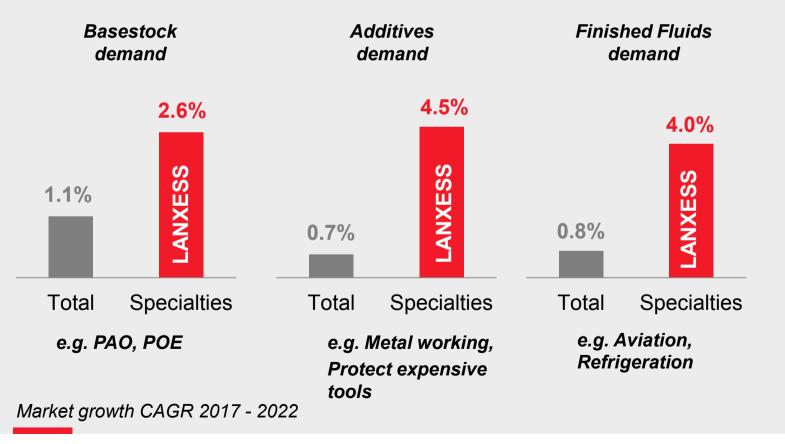




Increasing regulation and higher performance requirements drive growth for specialty lubricants



LANXESS focuses on growing specialty product segments



Lubricant Additives
Sales 2018



^{*} Source: Kline , LANXESS Research; PAO = Polyalphaolefines, POE= Polyoleesther

General industry applications provide a variety of independent growth sources



Turbines Highest safety standards

Windmills
Alternative energy
drives growth

Gear Boxes
Highest temperatures
and abrasion protection

Metal Working
Highest endurance and
abrasion protection

Any questions?

One time fill required

Highest abrasion resistance

Less replacement cycles



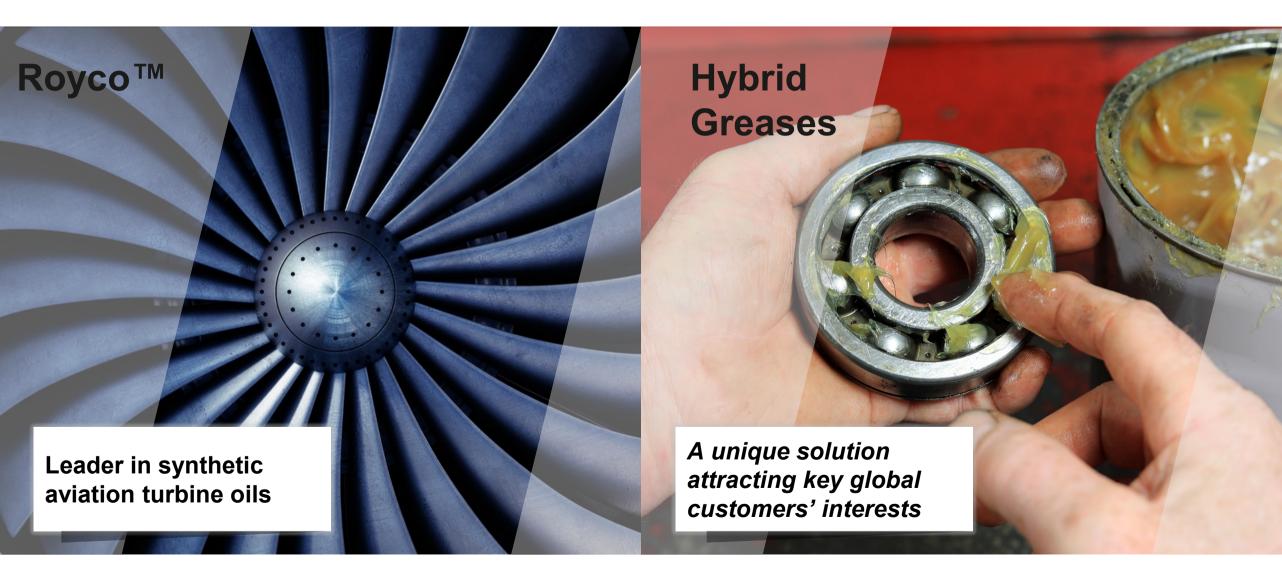






Innovative lubricant technology leverages growth offering synergistic customers' advantages





Lubricant Additives builds on its leading market positions through innovation and strong growth



Strategy execution

Leverage full value chain to grow in key product lines & tech transfer in adjacent markets & expand into Asia

Applied innovation

Succeed on key product launches to fulfill low friction, high temperature and corrosion protection requirements

Growth driver

Harvest growth in APAC region



LANXESS lubricates your world