






Innovation – LANXESS supplies the answers

Dr. Ulrich Koemm

Member of the Board

1st LANXESS Investor Conference
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LANXESS supplies the answers

Mobility	Sustainable Development	Safety
		
Efficiency, safety, comfort	Process innovation	Food, health and more

2 2006-09-15

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Tires – the linchpin of mobility



The Moving Powers of Rubber

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The Moving Powers of Rubber

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Halobutyl rubber – a key to greater fuel economy

Inflation Could Actually Save You Money This Summer!

In Response to Rising Fuel Prices, Goodyear Launches National “Free Air” Campaign; Proper Tire Inflation Could Save American Drivers More Than \$1.1 Billion This Summer!

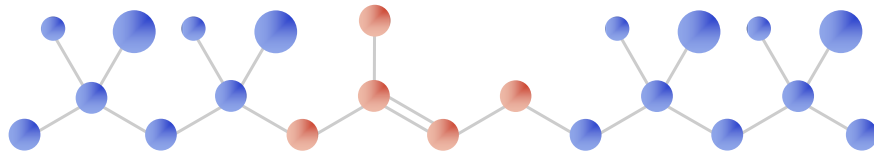
AKRON, OH -- (Market Wire) -- 05/25/2006 -- Are you one of the many Americans suffering from sticker-shock...at the gas pump? Shaking your head at the national average of \$2.91 per gallon for self-serve regular? Worried about your gas mileage and the cost of traveling this summer?

How would you like to save about \$1.50 every time you fill-up? If so, you're not alone. The Goodyear Tire & Rubber Company today launched a nationwide campaign that has the potential to save American motorists more than \$1.1 billion dollars in unnecessary fuel costs this summer.

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Butyl rubber – pushing the limits of isoprene incorporation



Isoprene (IP) allows for chemical modification and/or crosslinking.

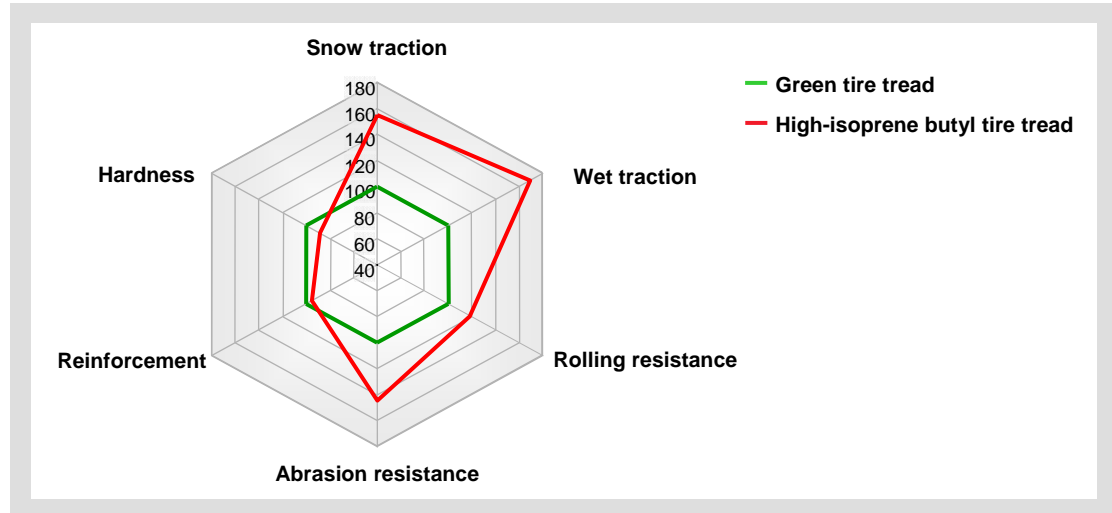
Isobutylene (IB) has excellent barrier properties and an unmatched ability to absorb mechanical energy.



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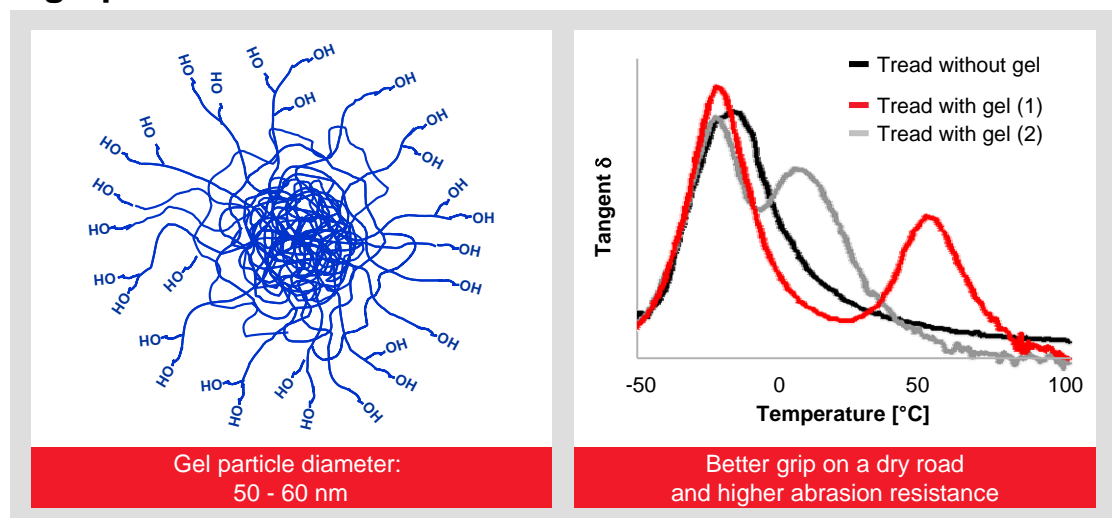
Quite a difference – tire treads of “high-isoprene” butyl rubber



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Rubber gels – high-performance co-fillers



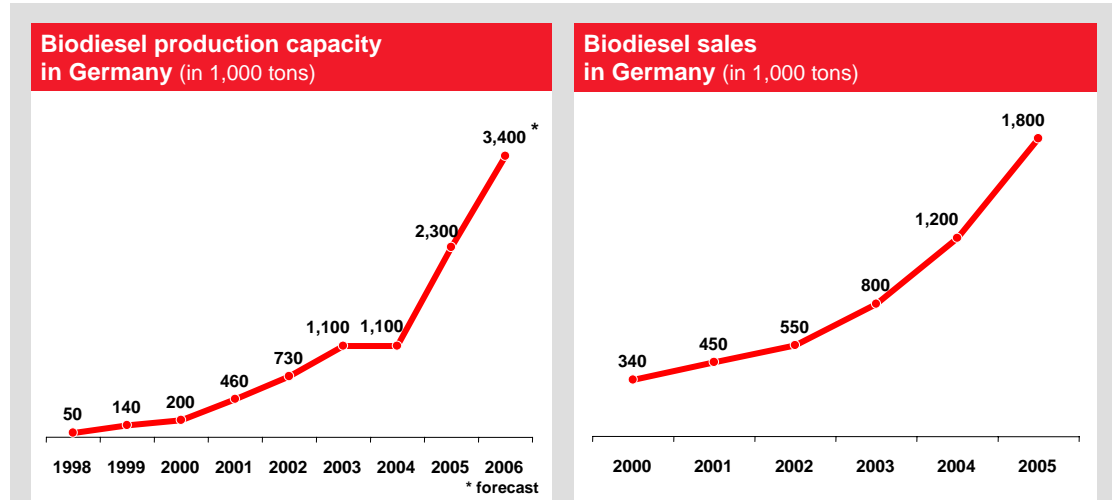
Gel particle diameter:
50 - 60 nm

Better grip on a dry road
and higher abrasion resistance

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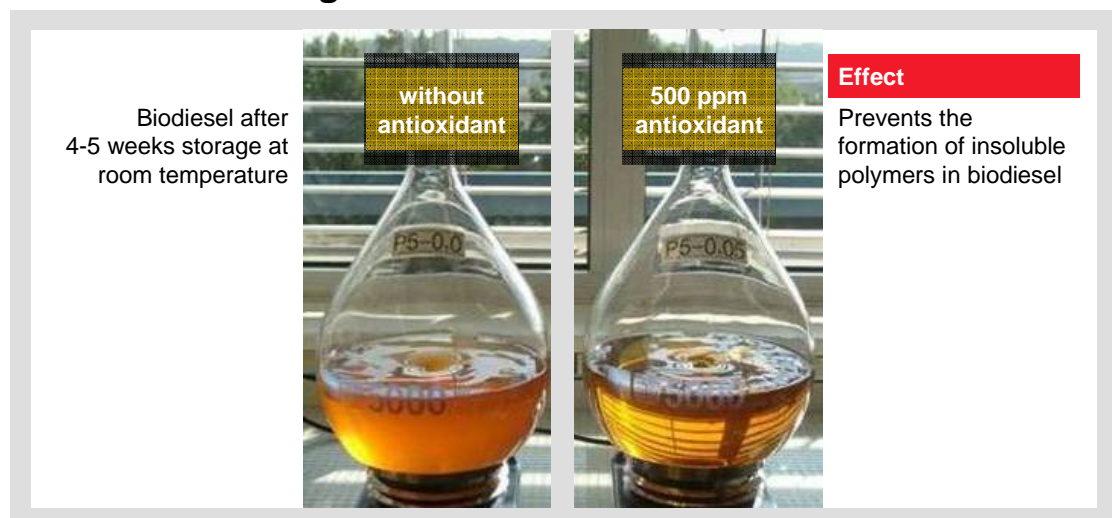
Fuels from renewable raw materials



Source: Union zur Förderung von Öl- und Proteinpflanzen e.V.
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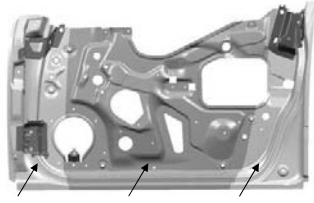
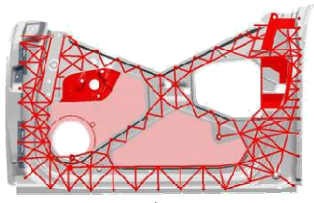

Synthetic antioxidants for biodiesel – a “clear” advantage



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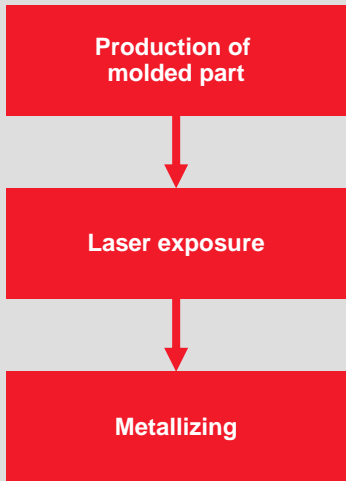
Door module study in metal-polyamide hybrid technology – less weight results in lower fuel consumption

 <p>t = 1.7 mm t = 0.8 mm t = 1.2 mm t – wall thickness</p>	 <p>t = 0.8 mm Plastic = 2.0 mm</p>	
<p>Traditional steel solution</p>	<p>Hybrid concept</p>	<p>Result of the study</p>
<p>Inner section of metal door with three reinforcing panels welded-on</p>	<p>Red: plastic rib structure and molded functional elements Gray: steel sheet</p>	<p>Hybrid door with Durethan® BKV30: approx. 20% weight savings for the same cost</p>

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3-D plastic-metal components through laser direct structuring (LDS)



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graph TD
    A[Production of molded part] --> B[Laser exposure]
    B --> C[Metallizing]
    
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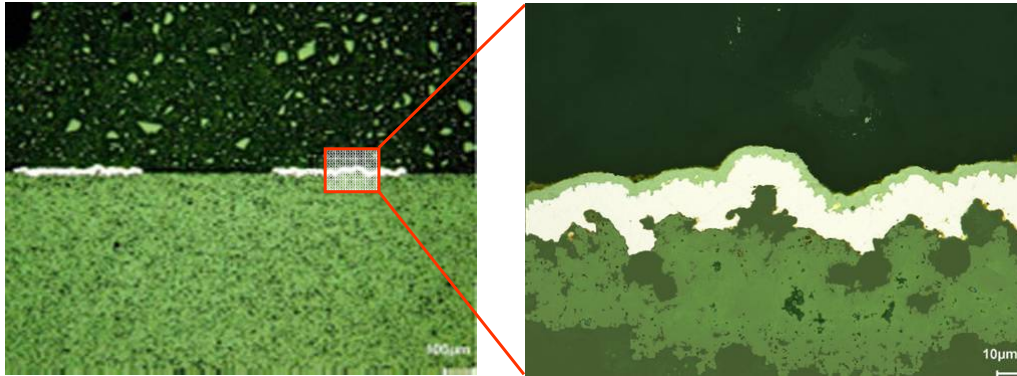
Source: LPKF Laser & Electronics AG

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Laser direct structuring (LDS) – mechanical anchoring of the metallization

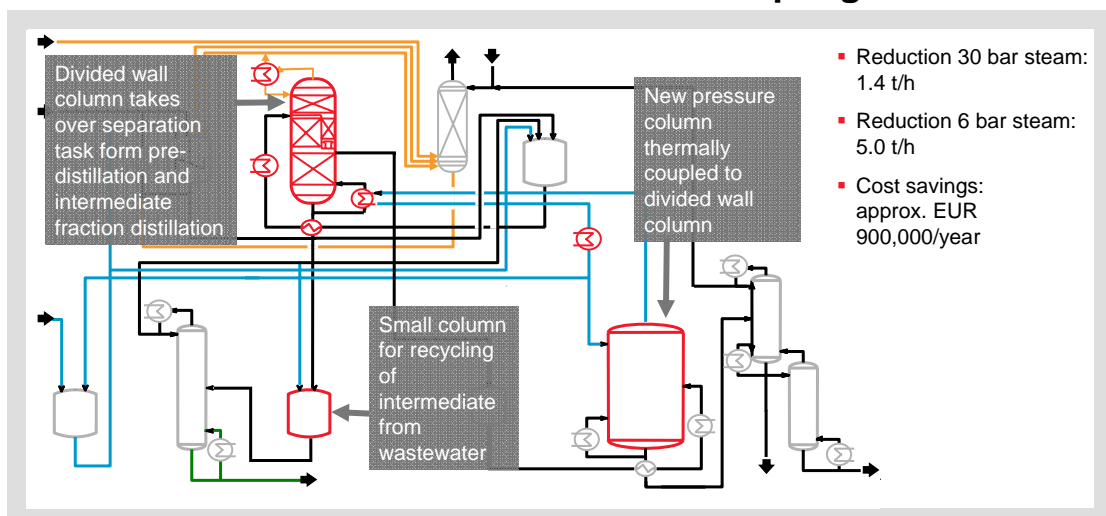
Thin section micrographs



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Responsible use of energy – divided wall column and direct thermal coupling



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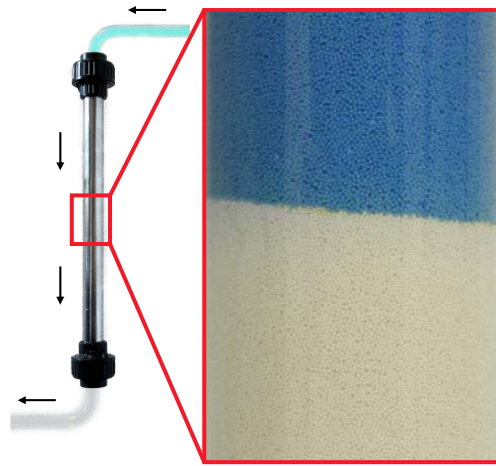
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Efficient use of resources – extraction of metals through selective absorption

Hydrometallurgy with ion exchange resins

Advantages:

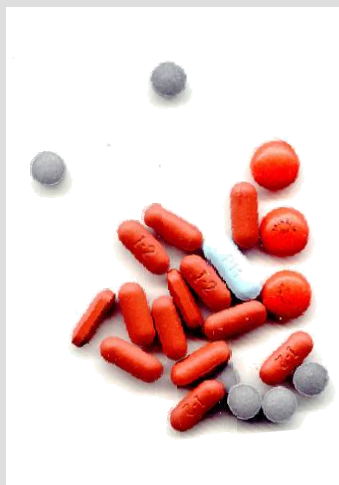
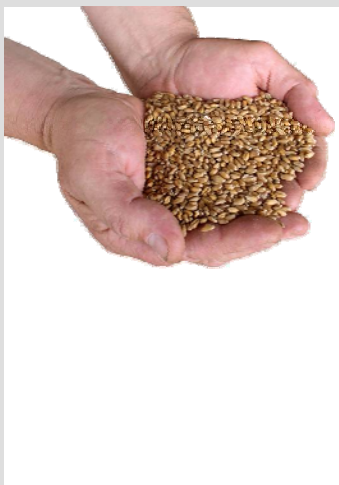
- Efficient process, highly pure products
- Residual metal content very low
- Broad application for Cu, Ni, Co, Zn, U, Ag, Au etc.
- Considerably reduced environmental impact



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What we all want – food, health, safety



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Saltigo supplies answers in custom manufacturing

Competencies of Saltigo

- Customized syntheses
- Customized process development
- Customized manufacturing
- Customized services



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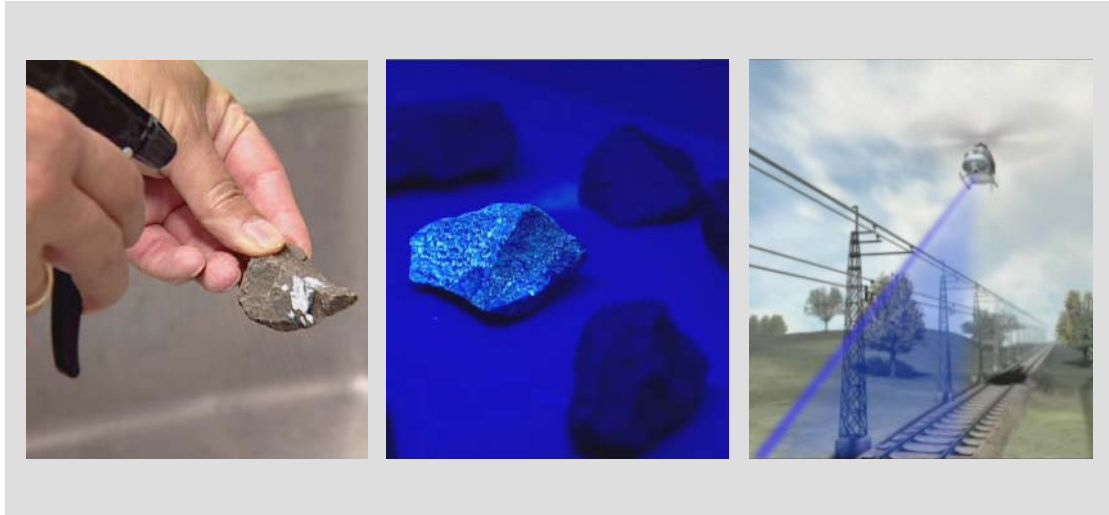
Disinfection provides protection – no reason to fear poultry and poultry products



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So that you can see any interference – fluorescent stones

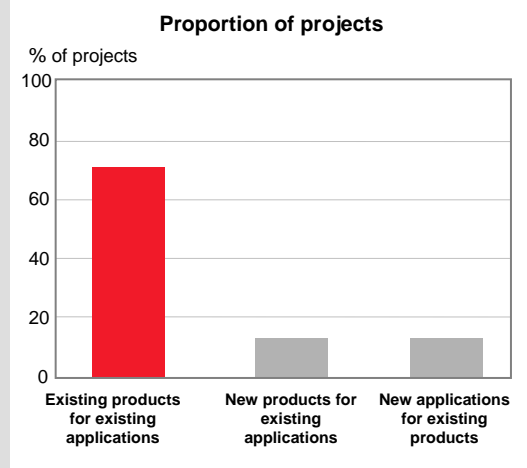


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R&D projects at LANXESS – it's all about efficiency and speed

- Commitment to innovation reflecting market and customer needs
- Support of development networks that include customers, suppliers and external organizations
- Project selection and management for maximum added value with minimum investment and development time
- Ongoing improvement of in-house (production) processes

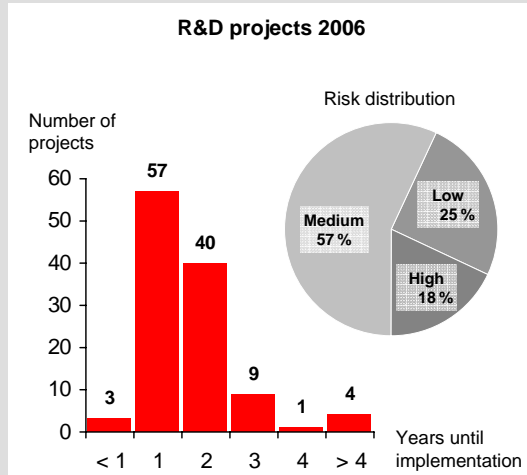


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R&D at LANXESS is highly efficient – aiming for rapid market maturity

- 114 projects in the pipeline
- Sales potential for 2011: ~ €700 m*
- Result potential for 2011: > 15%
- High probability of success:
 - Ready to market in < 2 years
 - Low and medium risk projects
- R&D spending € 100 m in 2005 $\hat{=}$ 1.4% of turnover

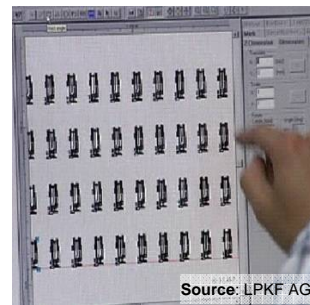
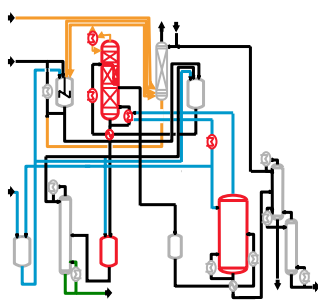
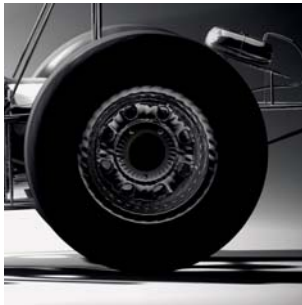


* Partly renewing of existing business
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Products, processes, technologies



Source: LPKF AG

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