



# PLANT-BASED OILS RUBBER APPLICATIONS

## GO THE DISTANCE WITH ADM'S INDUSTRIAL OILS: RULE THE ROAD

ADM's rich portfolio of industrial vegetable oils is ideal for customizing blends for a variety of applications. We have established technology that supports product development for many applications and our process oils are ideal for rubber, plasticizers and adhesive components.

So, whether you're looking to improve tire performance or punch up plasticizer flexibility, we can help. We know maintaining your competitive edge in the global marketplace takes continuous product performance improvements.

## THE **EDGE** TO GET AHEAD

With the largest portfolio of naturally-sourced oils in the industry and unmatched technical ingenuity, ADM is your trusted partner to deliver renewable and plant-based oils. Our oils are formulated to exceed performance demands in a wide range of industrial applications with the consistent quality and stability you depend on.

### USE FOR:



**Process Oils**



**Plasticizers**



**Adhesive Components**



**Strong Surface Attraction**





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## WE DRIVE MANUFACTURING AND TIRE PERFORMANCE

Currently, there are emerging trends to shift processing oils from petroleum based to biobased oils due to safety and compliance regulations. This is fueling the need to investigate safer and more viable options to optimize performance and drive innovation. At ADM, we have more than 100 years of experience in vegetable oil formulation and understand the challenges you face.

### Better Solutions

- Blending energy is reduced because of improved solubility
- Better solvency can increase the amount of processing oil used as filler
- Additives can be distributed easily and more evenly
- Improved grip in icy or wet conditions
- Less abrasion and longer life

### Better Value

- High performance at lower cost
- Blending abilities for efficacy and cost control
- Lasting flexibility
- Reduced wear in all sections
- Maintain grip as tire ages

### Better for the Environment

- Eliminates pollution due to replacing of polyaromatic hydrocarbons (PAH)
- Less foaming during processing, reducing waste
- Biodegradable
- Renewable resource





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## OUR OIL PORTFOLIO PERFORMS FOR YOU

ADM's complete portfolio of industrial oils helps you to create customized blends for specific rubber applications or off-the-shelf products. Our oils for rubber are used for process oils, plasticizers and adhesive components.

Our industrial oils will help you create products that deliver unwavering excellence and value. They're also processed from renewable and plant-based resources. Our modified oils use hydrogenation, polymerization and specialty blends to enhance individual oil performance too.

### Oils for Rubber Applications:



#### **Soybean and Canola Oils:**

These are ideal dispersants and carriers with strong surface attraction making them a low cost, high-performance additive.



#### **Sunflower and High Oleic Oils:**

These have a higher oxidative stability than other non-vegetable oil alternatives.

**All of ADM's oils are backed by a passionate R&D team, a friendly customer service group, and a world class distribution network**



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## WE MEET CHALLENGES HEAD ON

ADM is ready to meet any formulation challenge—head on.

### **Are you concerned about performance and dependability?**

We're committed to making sure that your product gets to market on time. We'll also show you how you can add an ingredient to create a product that will exceed expectations and deliver results.

### **Do you need a specific component to perfect your formulation?**

ADM provides more components ready to integrate into your formulations to accelerate speed to market and we'll even help you figure out how to use it. We're driving innovation and helping you to deliver on trends.

### **Are you worried about supply and delivery?**

You're not alone and we won't let you down. Our supply chain is dependable and you can trust on-time delivery because we've been at this for more than 100 years. We provide value through the entire supply chain and do what others can't – provide you with peace of mind that we'll supply and deliver.

### **What else do we offer?**

#### **ADM also has:**

- Formula integrations that help speed to market
- Technical know-how & ingenuity with proven data
- Education and guidance on how to use plant-based oils
- The most comprehensive range of portfolio options to fit custom needs

**ADM's innovation pipeline is filled with new ideas in formulation, performance and efficiency**



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## TOTAL PERFORMANCE & A SOLID GRIP ON THE FUTURE

We've got industry-advancing innovations and constantly work to improve your ability to get a product to market quickly and efficiently. We know what it takes to get it done. We're smart, efficient and effective because we have the experience, the work ethic and the resources to back it up.

We're committed. We're bold. We're resourceful. That's right. We don't shy away from being the best in the business and we want you to be too.

We have the world's premier crop transportation network and offer the optimal combination of performance, supply chain and economic advantage.

**You can count on us to deliver the edge you need to get ahead.**

Our global value chain includes:



Approximately **500** crop procurement locations



**330** ingredient manufacturing facilities



**62** innovation centers



**750** scientists and engineers



**Premier Transportation:**  
**1,900** trucks and trailers  
**27,400** railcar fleet  
**2,500** barges  
**52** deepwater vessels

## ADM DELIVERS FOR YOU

Our customer-centric approach—along with our global network, market smarts and our history of innovation and technical expertise—make ADM the clear choice for industrial oils and resources.

With ADM's best-in-industry comprehensive industrial oils portfolio and unparalleled formulation expertise, we bring you not only exceptional ingredients backed by performance and a highly dependable quality and supply chain, but we help you tackle challenging formulation problems faster and create solutions you can rely on.

