



# PLANT-BASED OILS INDUSTRIAL LUBRICANTS

## HIGH-POWERED LUBRICANTS TO GREASE YOUR OPERATION

Preventing machine failure is critical. Going a step beyond, to power their optimal performance gives manufacturers an advantage. With better lubricity and lower foam, lubricants made with our plant-based industrial oils keep machines up and running, with higher productivity and less downtime.

Our oils are ideal for metal working fluids, increasing production quality while mitigating ecological and employee exposure concerns. They are also ideal for drilling fluids used under extreme temperature and pressure conditions, and may result in faster and deeper drilling, lower bioaccumulation and high biodegradability, less waste volume, and reduced overall operation cost.

## RELIABILITY THAT GIVES YOU AN EDGE

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:



**Metal Working Fluids**



**Drilling Fluids**



**Gear Oils**

### PLANT-BASED INDUSTRIAL OILS:



**High Lubricity**



**High Viscosity Index**



**High Flash Point**



**Low Evaporative Loss**





# PLANT-BASED OILS INDUSTRIAL LUBRICANTS

## OPTIMAL PERFORMANCE TO DRIVE INNOVATION

Our plant-based industrial oils are viable, safer alternatives that 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. Our bio-based oils replace other oils, and perform better in many applications, with clear advantages.

### Better Solutions

- Better lubricity and much lower foam profiles than mineral oil
- Stability due to proven antioxidant content
- Better all-around performance
- Eliminate extreme pressure additive issues such as toxicity, smell, corrosion, and fungal growth
- Preferred by workers, gentler on skin

### Better Value

- Same performance as esters, at lower cost
- Waste reduction and extended tool life contribute to increased savings

### Better for the Environment

- Biodegradable
- Renewable resource
- No issues with toxicity or smell





# PLANT-BASED OILS INDUSTRIAL LUBRICANTS

## AN INDUSTRIAL- STRENGTH OIL PORTFOLIO THAT REALLY PERFORMS

ADM's complete portfolio of industrial oils helps you to create customized blends used as lubricity additives for metal working fluids, drilling fluids and gear oils.

Our industrial oils for lubricant applications 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 Lubricant Applications:



#### High Oleic Soybean Oils:

Ideal dispersants and carriers with strong surface attraction, they are low-cost, high-performance additives with 78.2% oleic acid for higher oxidative stability



#### High Oleic Sunflower Oils:

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



#### RBD Canola Oils:

With high oleic acid and high solubility, they are high performing lubricants, dispersants and carriers for applications that require higher oxidative stability



#### Acidulated Oils:

These highly functional by-products contain fatty acids and a blend of polar groups, making them ideal for a variety of formulations and applications

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



[adm.com/industrials](http://adm.com/industrials) | 217.451.3510 | [industrialoils@adm.com](mailto:industrialoils@adm.com)



# PLANT-BASED OILS INDUSTRIAL LUBRICANTS

## MEETING LUBRICATION 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..

### **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.

### **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.

### **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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# PLANT-BASED OILS INDUSTRIAL LUBRICANTS

## THE PERFORMANCE EDGE YOU NEED TO SUCCEED

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.

