



PLANT-BASED OILS OILFIELD AND MINING APPLICATIONS

POWERFUL PERFORMANCE ONSITE AND IN THE FIELD

When oil and mining production companies are out in the field, nothing matters more than safe, efficient, reliable performance. High-performing lubricants made with plant-based industrial oils from ADM help keep operations up and running, smoothly.

We're experts at helping you create the optimal blend of oil performance, supply chain, and economic advantages—for the highest performance and best value. Our oils are ideal for biodegradable lubricants, greases and hydraulic fluids used in exploration, extraction, refining, and transportation operations.

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:



**Lubricity
Additives**



Cleaners



**Rust
Preventatives**



Solvents



**Boundary
Lubricants**



Cross-linking



Release Agents





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OPTIMAL PERFORMANCE AND DISTINCT ADVANTAGES

A safer alternative to other oils, our plant-based industrial oils perform better with clear advantages in many applications. At ADM, we have more than 100 years of experience in vegetable oil formulation, understand the challenges you face, and know how to help you optimize performance and drive innovation.

Better Solutions

- Excellent choice for use as base stock for lubricants and other functional fluids
- Remarkable lubricity, far superior to mineral oil
- Superior anticorrosion properties due to greater affinity for metal surfaces
- Very high flash points
- Ability to withstand harsh environments, ideal for use on off-shore platforms

Better Value

- High performance at lower cost than other esters
- Blending abilities for efficacy & cost control

Better for the Environment

- No foaming or smelling during drilling operation
- Biodegradable
- Renewable resource





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AN OILS PORTFOLIO THAT OUTPERFORMS THE OTHERS

ADM's complete portfolio of industrial oils helps you to create customized blends for oilfields and mining that are used as boundary lubricants, lubricity additives, cleaners, rust preventatives and solvents.

Our industrial oils for oilfield and mining 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 Oilfield and Mining Applications:

-  **RBD Soybean Oils:**
Ideal dispersants & carriers with strong surface attraction, they're low-cost, high-performance additives
-  **Soy Oil Fatty Acid Methyl Esters:**
With extra high solvency and a slow evaporation rate, they replace hazardous solvents to degrease and to inhibit corrosion
-  **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
-  **Cottonseed Oils:**
These unique blends of high linoleic and saturated fatty acids, including saturated and unsaturated medium length chains, provide stability and performance in lubricant applications
-  **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





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MEETING OILFIELD 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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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.

