



PLANT-BASED OILS ASPHALT APPLICATIONS



PAVE THE ROAD TO SUCCESS

ADM's rich portfolio of industrial oils is effective for a variety of applications. Paving and maintaining durable roads is a top priority throughout the world. We are passionate about developing products and technologies to improve transportation quality, and paving the way to meet increasing demands placed on our roads. Asphalt pavements often require additives to mitigate traffic and environmentally-induced stresses on the pavement.

So, when you're looking to improve asphalt performance, we can help. We know gaining your competitive edge in the global marketplace takes continuous product performance improvements. The right oil and asphalt provide improved resistance to decrease the total cost of the pavement.

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:



Lubricity



Strong Surface Attraction



Solvents



Surface Lubricants





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WE DRIVE CONSTRUCTION AND ROAD PERFORMANCE

Trends continue to shift to bio-based oils due to safety and compliance regulations. 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

- Very high flash points
- Blending energy is reduced because of improved solubility
- Better solvency can increase the amount of process oil used as filler
- Additives can be distributed easily and more evenly

Better Value

- High performance at lower cost
- Blending abilities for efficacy and cost control
- Lower foam profile for better performance, saving tool life and lowering costs

Better for the Environment

- 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 asphalt applications or off-the-shelf products. Our oils for asphalt are used for adhesive components and lubricity additives.

Oils for Asphalt Applications Include:



Soybean and Canola Oils:

With a higher level of oleic acid for stability, these are ideal dispersants and carriers; with strong surface attraction making them a low cost, high-performance additive for asphalt.



Sunflower and High Oleic Oils:

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

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.

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 | 217.451.3510 | industrialoils@adm.com



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WE PAVE THE WAY TO PERFORMANCE

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.

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
- Education and guidance on how to use plant-based oils
- The most comprehensive range of portfolio options to fit custom needs





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EXTENDED **PERFORMANCE** WITH THE RIGHT ROAD **TO GET AHEAD**

We've got industry-advancing innovations and constantly work to improve industries' ability to get a product to market quickly and efficiently. We know what it takes to get it done.

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

ADM has 750 scientists and engineers dedicated to product development, process advancements, and customer co-development projects.

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



Approximately **500** crop procurement locations



330 ingredient manufacturing facilities



62 innovation centers

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.

