

# Fluoro-Alternative Durable Water and Oil Repellency for Performance Textiles

Today's textile industry is navigating increasing demand for fluoro-alternative technologies that deliver both water and oil repellency without compromising comfort, durability, or manufacturability. DOWSIL™ IE-5619 DWOR Emulsion is a silicone-organic hybrid polymer technology designed to help textile chemical formulators and mills achieve durable water and oil repellency across a wide range of textile applications and fabric constructions. Engineered for applications ranging from outdoor apparel and workwear to home textiles and technical fabrics, DOWSIL™ IE-5619 provides dual repellency against both water- and oil-based contaminants while helping preserve fabric comfort, breathability, and aesthetics. Designed for durable performance, treated fabrics can maintain their protective properties through repeated laundering cycles, helping extend garment life and support consumer expectations for long-lasting performance.

## Features and Benefits

- **Dual Repellency:** Helps repel common oil-based contaminants and water-based stains
- **Fluoro-Alternative Technology:** Silicone-organic hybrid chemistry developed for durable water and oil repellency
- **Durable Performance:** Maintains repellency after 20+ home laundering cycles
- **Versatile Application:** Compatible on natural, synthetic, and blended fibers when optimized for the application
- **Comfort Retention:** Preserves breathability and softness for next-to-skin wear
- **Easy Integration:** Compatible with conventional textile finishing processes and existing manufacturing infrastructure



Treated with DOWSIL™  
DWOR Emulsion



Untreated

# Explore the Complete Dow Water and Oil Repellency Portfolio

- [DOWSIL™ IE-5619 DWOR Emulsion](#)
- [DOWSIL™ IE-8749 Emulsion](#)
- [DOWSIL™ IE-9100 Emulsion](#)

Request a sample, connect with a technical specialist, or explore formulation options for your specific textile application. To find out more about Dow's Durable Water Repellents, visit [dow.com/dwr](https://dow.com/dwr).

How can we support your latest innovation?



Dow Water Repellency website:  
[dow.com/dwr](https://dow.com/dwr)



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