

## Acheson provides reliable quality and service.

Acheson's strategically positioned R&D and manufacturing locations around the world, coupled with its extensive line of products, assure you of dealing with a supplier who is posed to suit your needs. When you choose Acheson Dry Film Lubricants, you can be assured of dealing with a world class organization and world class low friction coatings. Acheson is ISO 9001:2000 certified for quality. We employ quality monitoring standards that are rigorous and thorough. Plus, you can count on courteous customer service and on-time delivery.

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For direct contact with Acheson in your area please call or fax:

### North America

Acheson Colloids Company  
1600 Washington Avenue, Port Huron, MI 48060 USA  
Tel +1 810-984-5581 Fax +1 810-984-1446

### Latin America

Acheson do Brasil Ind. e Com. Ltda.  
Rua Howard A. Acheson Jr., 279, Jardim da Glória, Cotia-SP 06711-280 Brazil  
Tel +55 11-2246-8500 Fax +55 11-2246-8528

### Europe, Africa, Middle East

Acheson Colloiden B.V.  
Postbox 1, 9679 ZG Scheemda, Netherlands  
Tel +31 (0) 597-670502 Fax +31 (0) 597-670595

### Asia-Pacific

Acheson (Japan) Ltd.  
825, Kitano Noguchi-cho,  
Kakogawa, 675-0011, Japan  
Tel +81 794-26-2415 Fax +81 794-26-2796



[www.achesonindustries.com](http://www.achesonindustries.com)

Acheson is dedicated to meeting the needs and expectations of customers without compromising its commitment to sustainability. Acheson supports sustainability through its continuous efforts to improve the safety, health and environment of the communities in which it operates. For detailed information on Acheson's sustainability program, visit [www.nationalstarch.com](http://www.nationalstarch.com).

The information given and the recommendations made herein are based on our research and are believed to be accurate but no guarantee of their accuracy is made. In every case we urge and recommend that purchasers, before using any product in full scale production, make their own tests to determine to their own satisfaction whether the product is of acceptable quality and is suitable for their particular purposes under their own operating conditions. No representative of ours has any authority to waive or change the foregoing provisions but, subject to such provisions, our engineers are available to assist purchasers in adapting our products to their needs and to the circumstances prevailing in their business. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without the authority from the owner of this patent. We also expect purchasers to use our products in accordance with the guiding principles of the American Chemistry Council's Responsible Care® program.



CORE GLOBAL PRODUCT RANGE

Product  
Selector  
Guide



Dispersion Formulation Science

# Acheson...a global provider of innovative coatings and lubricant dispersions

## Dry Film Lubricants Selector Guide

Product	Pigment	Resin	Carrier	Color of Coating	COF (static)	Cure or Drying Schedule	Primary Uses
EMRALON® 8301	PTFE	Polyurethane	Water	Clear	0.06 – 0.08	Air dry overnight, or cure 30 minutes @ 100°C (212°F)	Paper handling mechanisms, o-rings, nylon parts, light mechanisms, general hardware protection
EMRALON 329	PTFE	Thermoplastic	Solvent mixture	Clear	0.06 – 0.09	Air dry 2 hours @ ambient temperature	Fast-dry application for furniture components, slides, mechanisms, tools, plungers
EMRALON TM-001A	PTFE	Thermoset	Water	Clear	0.08 – 0.10	Air Flash + 30 minutes @ 150°C (302°F)	Cured coating for rubber o-rings and gaskets for insertion-extraction, color-coding; suitable for non-Class A surface plastics
EMRALON TM-008	PTFE	Alkyd Resins	Water	Black	0.06 – 0.08	Air flash 2-5 minutes and cure 10-20 minutes @ 200°C (392°F)	Low friction, protective coating with enhanced corrosion protection for fasteners, safety components, slides, rails, seating mechanisms, etc. applied by dip spin processes or spray
EMRALON 330	PTFE	Phenolic	Solvent mixture	Green	0.05 – 0.07	Air flash + 60 minutes @ 160°C (320°F)	Low friction, protective and decorative coating for metal fasteners, safety restraint components, slides and rails, seating mechanisms, etc. applied by dip spin processes
EMRALON GP-1904	PTFE	Phenolic	Solvent mixture	Black	0.05 – 0.07	Air flash + 60 minutes @ 160°C (320°F)	Low friction, protective and decorative coating for metal fasteners, safety restraint components, slides and rails, seating mechanisms, etc. applied by dip spin processes
EMRALON 333	PTFE/FEP mixture	Polyamideimide	NMP	Black	0.08 – 0.10	Air flash + 10 minutes @ 150°C (300°F) pre-cure, followed with 5 minutes @ 315°C (600°F) final cure	Low friction, very durable protective coating for high chemical and solvent resistance, component durability of components such as latches, piston skirts, rails, window guides, etc.
DAG® 154	Graphite	Thermoplastic	IPA	Black	0.18 – 0.20	Air dry 2 hours @ ambient temperature	Engine components, gaskets, thread lubricant, mechanisms, business machines
DAG 213	Graphite	Epoxy	Solvent mixture	Black	0.07 – 0.20	Air flash + 60 minutes @ 180°C (356°F)	Cylinders, pistons, lock mechanisms, light load requirement mechanisms, plungers, sliding rails
MOLYDAG® 210	MoS <sub>2</sub>	Thermoplastic	IPA	Grey-green	0.22 – 0.24	Air dry 2 hours @ ambient temperature	Extreme pressure burnishing lubrication for automotive components, gaskets and mechanisms; fast cure/air cure applications
MOLYDAG 709	MoS <sub>2</sub>	Thermoset	Toluene	Grey-green	NA	Air flash + 60 minutes @ 200°C (392°F)	Extreme pressure lubrication over a wide temperature range for automotive components, mechanisms, tools, fasteners for long lasting durability
FASTNACOAT® AM3S	PTFE	Thermoset	Solvent Mixture	Black	0.10 – 0.16	20 minutes @180C (356°F)	Dip-spin coating for fasteners used for controlling torque and tension, providing corrosion and wear protection, and cosmetic appeal



Designers in the aerospace, electronics, rubber and automotive industries have something in common — problems. Problems like lifetime lubrication, where you cannot use a fluid at all. Acheson is your solution provider. We have the experience and know-how to develop dry film coatings and the expertise to solve your lubrication needs.

Acheson's resin dry film coatings of EMRALON® PTFE, MOLYDAG® micro-fine molybdenum disulphide and DAG® specially processed graphites provide clean, dry, lifetime lubrication in countless applications. These coatings contribute to the smooth, dependable operation of thousands of products as diverse as household appliances, automotive components and aerospace equipment.

We address critical issues like reduced friction, controlled torque, anti-seize, chemical and corrosion resistance and extreme durability.

### We can also advise you on how to best apply dry lubricants permanently and economically.

Proper surface pretreatment and application technique are vitally important when a thin film has to give a constant friction coefficient for years. That is why we offer you complete support with our worldwide laboratories and field application specialists.

Visit us at [www.achesonindustries.com](http://www.achesonindustries.com)