

Dispersion Formulation Science



Henkel

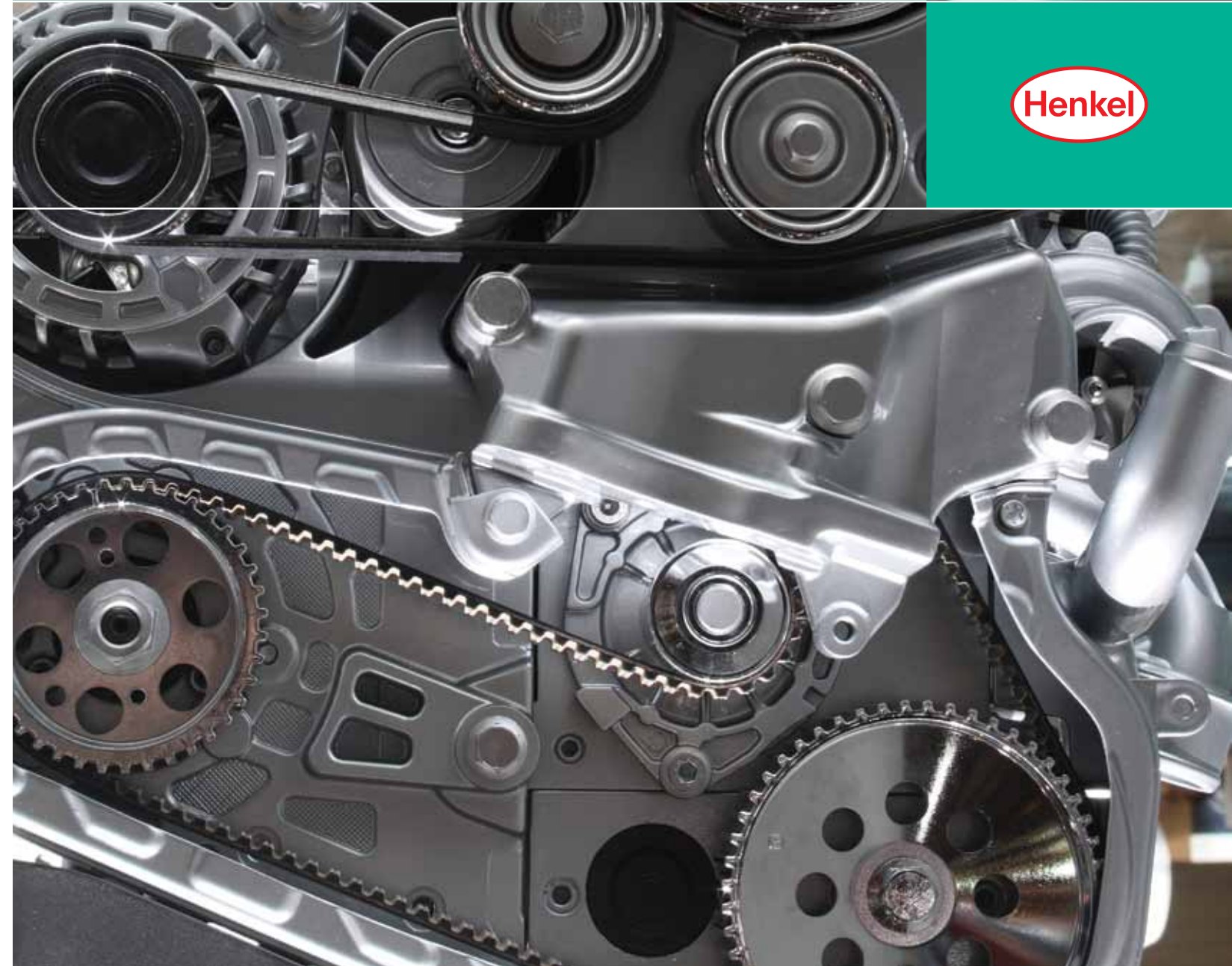
## Dry Film Lubrication

### Product Selector Guide

Core Product Range



Henkel



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

## Core Product Range

| Product                 | Pigment          | Resin          | Carrier         | Color of Coating | COF (static) | Cure or Drying Schedule   | Primary Uses  |
|-------------------------|------------------|----------------|-----------------|------------------|--------------|---|---|
| <b>EMRALON® 8301</b>    | PTFE             | Polyurethane   | Water           | Clear            | 0.06 – 0.08  | Air dry overnight, or cure 30 minutes at 100°C (212°F)  | Paper handling mechanisms, o-rings, nylon parts, light mechanisms, general hardware protection  |
| <b>EMRALON® 329</b>     | PTFE             | Thermoplastic  | Solvent mixture | Clear            | 0.06 – 0.09  | Air dry 2 hours at ambient temperature  | Fast-dry application for furniture components, slides, mechanisms, tools, plungers  |
| <b>EMRALON® TM-001A</b> | PTFE             | Thermoset      | Water           | Clear            | 0.08 – 0.10  | Air flash + 30 minutes at 150°C (302°F)   | Cured coating for rubber o-rings and gaskets for insertion-extraction, color-coding; suitable for non-Class A surface plastics  |
| <b>EMRALON® 330</b>     | PTFE             | Phenolic       | Solvent mixture | Green            | 0.05 – 0.07  | Air flash + 60 minutes at 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           |
| <b>EMRALON® GP-1904</b> | PTFE             | Phenolic       | Solvent mixture | Black            | 0.05 – 0.07  | Air flash + 60 minutes at 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           |
| <b>EMRALON® 333</b>     | PTFE/FEP mixture | Polyamideimide | NMP             | Black            | 0.08 – 0.10  | Air flash + 10 minutes at 150°C (302°F) pre-cure, followed with 5 minutes at 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. |
| <b>DAG® 154</b>         | Graphite         | Thermoplastic  | IPA             | Black            | 0.18 – 0.20  | Air dry 2 hours at ambient temperature  | Engine components, gaskets, thread lubricants, mechanisms, business machines  |
| <b>DAG® 213</b>         | Graphite         | Epoxy          | Solvent mixture | Black            | 0.07 – 0.20  | Air flash + 60 minutes at 180°C (356°F)   | Cylinders, pistons, lock mechanisms, light load requirement mechanisms, plungers, sliding rails   |
| <b>MOLYDAG® 210</b>     | MoS <sub>2</sub> | Thermoplastic  | IPA             | Grey-green       | 0.22 – 0.24  | Air dry 2 hours at ambient temperature  | Extreme pressure burnishing lubrication for automotive components, gaskets and mechanisms; fast cure/air cure applications  |



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. We have the experience and know-how to develop dry film coatings and the expertise to solve your lubrication needs.

Henkel's Acheson™ resin dry film coatings of EMRALON® PTFE, MOLYDAG® micro-fine molybdenum disulfide, 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.

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