

# Product Information

## High Performance Lubricants

# *Molykote*<sup>®</sup> PA-744

## Anti-Friction Coating

### FEATURES

- Extreme wear resistant coating with high load-carrying capacity
- Good resistance to motor oils
- Applicable at operating temperatures from -75°C to +300°C (-103°F to +572°F)

### BENEFITS

- Helps reduce piston scuffing
- Helps reduce engine noise

### Anti-Friction Coating

#### APPLICATIONS

- Excellent long-term lubricating film for pistons used in automotive air conditioner compressors; gasoline and diesel engine pistons; and pistons used in pumps, pneumatic and hydraulic systems, etc.
- Coating helps to reduce piston and cylinder wall wear during initial run-in and cold start situations.

#### TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

| Property  | Value                    |
|---|--------------------------|
| Color   | charcoal gray            |
| Viscosity, cps  | 23,000                   |
| Density (at 25°C), g/ml   | 1.21                     |
| Flash Point, °C (°F)  | 34 (93)                  |
| Cure Time,  |                          |
| at 180°C (356°F), minutes   | 90                       |
| at 230°C (446°F), minutes   | 60                       |
| Coverage, at 10 microns cured film thickness, ft <sup>2</sup> /lb       | 60                       |
| <u>As Cured</u>   |                          |
| Coefficient of Friction (Polymer-Tester: 50 cycles, 250g., 20mm stroke) | 0.045                    |
| Temperature range, °C (°F)  | -75 to 300 (-103 to 572) |

#### DESCRIPTION

*Molykote*<sup>®</sup> PA-744 Anti-Friction Coating is a dispersion of a selected blend of solid lubricants in an organic resin-solvent system

#### HOW TO USE

Stir well before use. Clean and degrease metal surfaces before application. *Molykote*<sup>®</sup> PA-744 is formulated for application by screen print process. Recommended film thickness is 10 - 20 microns. To adjust coating viscosity, the material should be diluted with n-methylpyrrolidone (NMP) solvent.

## **HANDLING PRECAUTIONS**

Product safety information required for safe use is not included. Before handling, read product and safety data sheets and container labels for safe use, physical and health hazard information. The material safety data sheet is available on the Dow Corning website at [www.dowcorning.com](http://www.dowcorning.com). You can also obtain a copy from your local Dow Corning sales representative or Distributor or by calling your local Dow Corning Global Connection.

## **USABLE LIFE AND STORAGE**

*Molykote*<sup>®</sup> PA-744 has a shelf life of 9 months when kept in its original sealed container at temperatures above -18°C (0°F).

## **PACKAGING**

*Molykote*<sup>®</sup> PA-744 is supplied in 0.8 liter (1.0 kg) cans and 18 liter (21.8 kg) open-top pails.

## **LIMITATIONS**

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

## **HEALTH AND ENVIRONMENTAL INFORMATION**

To support Customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, [www.dowcorning.com](http://www.dowcorning.com) or consult your local Dow Corning representative.

## **LIMITED WARRANTY INFORMATION - PLEASE READ CAREFULLY**

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that Dow Corning's products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow Corning's sole warranty is that the product will meet the Dow Corning sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

**DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.**

**DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

*We help you invent the future.*<sup>™</sup>

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