

**Product Information**  
**Specialty**  
**Lubricants**



**DOW CORNING**

广州孚润 400-992-6811

**Molykote<sup>®</sup> 3400A AERO**  
**Anti-Friction Coating**

**FEATURES & BENEFITS**

- Excellent lubrication
- High load carrying capacity
- Excellent adhesion to metals
- Low coefficient of friction
- High resistance to oils and fuels
- Good corrosion protection

**COMPOSITION**

- Solid lubricants
- Organic binders
- Organic solvents

Heat curing dry film lubricant for metal/metal material pairings involving slow to medium-fast movements and medium to heavy loads.

**APPLICATIONS**

- Suitable for permanent lubrication, with simultaneous corrosion protection of friction contacts involving high loads and low speed.
- Used wherever oils or greases cannot be used for technical reasons or are undesirable because of the risk of soiling.

**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.

Test*	Property	Unit	Result
	Color		Dark gray
	Service temperature range	°C	-200/+260
		°F	-328/+500
<b>Physical Properties</b>			
ASTM-D 1475	Density at 23°C (73°F)	g/ml	1.1
EN ISO DIN 2431	Viscosity, cup # 3 at 23°C (73°F)	s	38
ASTM-D 56	Flash point	°C	10
		°F	50
<b>Load Carrying Capacity, Wear Protection, Service Life</b>			
ASTM-D 2714	LFW-1, rotating, load 2860 N, n = 72 rpm, v = 7.9 m/min, no. of revolutions to $\mu = 0.1$		p = 158000 <sup>1</sup>
ASTM-D 2714	LFW-1, oscillating, load 900 N, frequency = 89.5 osc./min., no. of oscillations to $\mu = 0.08$		p = 140000 <sup>1</sup>
ASTM-D 2625	Falex, procedure B, load carrying capacity	N	p = 20000 <sup>1</sup>
		lbf	p = 4500 <sup>1</sup>
ASTM-D 2625	Falex, procedure A, endurance life average at 4450 N load	min.	p > 450 <sup>1</sup>

**HOW TO USE**

**Surface Preparation**

Carefully clean and degrease surfaces to be coated with the *Molykote*<sup>®</sup> 3400A AERO Anti-Friction Coating.

Recommended pre-treatments: blasting or phosphating. Both pretreatments increase the adhesion and service life of the *Molykote* 3400A AERO Anti-Friction Coating.

**How to Apply**

Stir the *Molykote* 3400A AERO Anti-Friction Coating thoroughly before and during use, apply by spraying, dipping, dip-spinning. Surfaces should be coated as evenly as possible. Recommended dry film thickness: 5 to 20 μm.

**Coverage**

When applied at 10 μm dry film thickness, *Molykote* 3400A AERO Anti-Friction Coating has a coverage of approx. 16 m<sup>2</sup>/kg (this value does not take into account the losses generated during the application process).

**Thinner**

Recommended thinner is *Molykote*<sup>®</sup> L 13 Anti-Friction Coating Thinner.

**Curing**

Typical curing conditions at object temperature: 30 min. at 200°C (392°F) or 60 min. at 150°C (302°F).

**HANDLING**

**PRECAUTIONS**

**PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT DOWCORNING.COM, OR**

**TYPICAL PROPERTIES (continued)**

Test*	Property	Unit	Result
<b>Resistances</b>			
ASTM-B 117 DIN 50021	Corrosion resistance without red rust (steel substrate, spraying application, film thickness = 10 μm)	h	p = min 100 <sup>2</sup>
ASTM-D 2510	Fluid resistance against typical aviation fluids, Proc. C <sup>3</sup>		no adhesion loss
ASTM-D 2510	Film adhesion, Proc A		no adhesion loss

\*ASTM: American Society for Testing and Materials

\*DIN: Deutsche Industrie Norm

<sup>1</sup>p = surface pre-treatment = Mn-phosphating

<sup>2</sup>p = surface pre-treatment = Zn-phosphating

<sup>3</sup>List of tested aviation fluids is available upon request.

**FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.**

your local Dow Corning representative.

**USABLE LIFE AND STORAGE**

When stored at temperatures between 0°C (32°F) and 23°C (73°F) in the original unopened containers, this product has a useable life of 24 months from date of manufacture.

**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 our 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.

**PACKAGING INFORMATION**

This product is available in 1 kg can.

Dow Corning’s sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

**LIMITATIONS**

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

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.

**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.

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For further information, please see our website, dowcorning.com or consult

*Molykote*<sup>®</sup> 3400A AERO Anti-Friction Coating

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