

# Molykote<sup>®</sup> D-96-NTP Anti-Friction Coating

## FEATURES

- Excellent “anti-squeak” performance
- Low coefficient of friction
- Constant coefficient of friction at different temperatures
- Water-based
- NMP-free
- Transparent coating

## COMPOSITION

- Solid lubricants
- Organic binder
- Water
- Stabilizer

Air-curing dry film lubricant

## APPLICATIONS

- Eliminates noise on interiors automotive components such as door panels, decorative trims, arm rests, central console, dashboards, glove boxes, etc., as well as leather equipment.
- Suitable for material combinations car paint/plastic, plastic/plastic, plastic/metal, car paint/leather, plastic/leather, leather/leather with slow movements or vibrations at low loads.

## 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 (dry film)		Transparent
	Service temperature range	°C	-40 to 150
		°F	-40 to 302
	<b>Physical properties</b>		
DIN EN ISO 2431	Viscosity at 23°C (73°F) Cup # 4	s	41
ASTM-D 1475	Density at 23°C (73°F)	g/ml	1.33
ASTM-D 56	Flash point	°C	> 100
		°F	> 212
VDA 278	Thermal desorption, emissions		NMP-free
	<b>Anti-Noise</b>		
VDA 230-206	Anti-noise tester, speed 2 mm/s, temperature 23°C (73°F), rel. humidity 40%, different loads: 2, 5, 10, 20 and 30 N		
	Material pairing	RPN <sup>1</sup>	noise
	Car paint vs PVC foil 1 mm thick	1	none
	Car paint vs PVC foil 2.5 mm thick	1	none
	Car paint vs TPO foil 1 mm thick	1	none
	PVC foil 1 mm vs PVC foil 1 mm	1	none
	PC-ABS vs PVC foil 1 mm thick	1	none
	Car paint vs leather	1	none
	Leather vs leather	1	none
	PC-ABS vs leather	1	none
VDA 230-206	Anti-noise tester, durability test = 100000 cycles, speed 2 mm/s, temperature 23°C (73°F), rel. humidity 40%, load 20 N, material pairing PVC foil 1 mm thick vs PC-ABS	RPN	noise
		1	none
	<b>Coefficient of friction</b>		
	Anti-noise tester, speed 2 mm/s, temperature 23°C (73°F), rel. humidity 40%, load 20N		
	Material pairing:	μ-static <sup>2</sup>	μ-dynamic
	Car paint vs PVC foil 1 mm thick	0.15	0.1

## TYPICAL PROPERTIES (CON'T)

Test*	Property	Unit	Result
	Car paint vs PVC foil 2.5 mm thick	0.2	0.13
	Car paint vs TPO foil 1 mm thick	0.24	0.13
	PVC foil 1 mm vs PVC foil 1 mm	0.28	0.2
	PC-ABS vs PVC foil 1 mm thick	0.3	0.14
	Car paint vs leather	0.36	0.25
	Leather vs leather	0.24	0.17
	PC-ABS vs leather	0.18	0.13
	Oscillating tester, speed 10 mm/s, load 2 N, temperature 23°C (73°F), rel.humidity 40%, material pairing:	$\mu$ -static	$\mu$ -dynamic
	POM ball vs PVC foil 1 mm thick	0.4	0.13
	POM ball vs TPO foil 1 mm thick	0.29	0.08

\*DIN: Deutsche Industrie Norm.

ASTM: American Society for Testing and Materials.

VDA: Verband der Automobilindustrie.

<sup>1</sup>RPN = Risk priority number

<sup>2</sup> $\mu$  = coefficient of friction

## HOW TO USE

### Surface preparation

First clean and degrease the surface which will be coated with *Molykote*<sup>®</sup> D-96-NTP Anti-Friction Coating.

### How to apply

Stir the anti-friction coating thoroughly before applying by spraying, dip-spinning or brushing.

Recommended dry film thickness: 5 to 20  $\mu$ m.

### Curing

After 3 min at room temperature (23°C, 73°F) the film of *Molykote*<sup>®</sup> D-96-NTP Anti-Friction Coating is touch dry and the coated parts can be handled; the drying time can be speeded up with hot air at 60/80°C (140/176°F); after 120 minutes at 23°C (73°F) the dry film is fully cured and it can be fully loaded.

### Thinner

*Molykote*<sup>®</sup> D-96-NTP Anti-Friction Coating is ready to use for spraying; thinning (viscosity adjustment) can be carried out by using distilled water or tap water. Water or a mixture of DPM (CAS # 34590-94-8) in water (up to 20%) can be used for cleaning the application equipment components.

### Coverage

When applied at 12  $\mu$ m dry film thickness *Molykote*<sup>®</sup> D-96-NTP Anti-

Friction Coating has a coverage of approx. 20 m<sup>2</sup>/kg (this value does not take into account the losses generated during the application process).

## HANDLING

### PRECAUTIONS

#### PRODUCT SAFETY

INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL 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 WEB SITE AT DOW CORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

### USABLE LIFE AND STORAGE

When stored at 23°C (73°F) in the original unopened containers, this product has a usable life of 12 months from the date of production.

### PACKAGING INFORMATION

This product is available in different standard container sizes. Detailed

container size information should be obtained from your nearest Dow Corning sales office or Dow Corning distributor.

## 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 Web site, [dowcorning.com](http://dowcorning.com) or consult your local Dow Corning representative.

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