

# MOLYKOTE® P-1042 Adhesive Grease Paste

Reliable performance while withstanding washout by water and aggressive cooling fluids

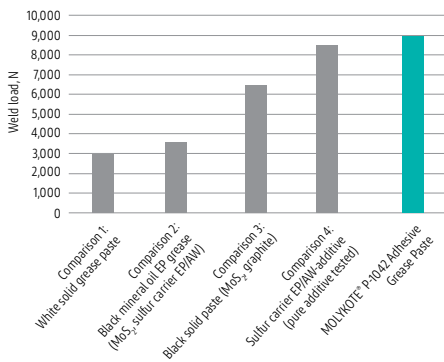
## Meet performance needs

MOLYKOTE® P-1042 Adhesive Grease Paste offers:

- High load-carrying capacity
- Outstanding resistance to washout by water and metal-machining emulsions
- Tribo-corrosion avoidance
- Stick-slip prevention
- Excellent protection against galling

## High load-carrying capacity

DIN 51350 pt. 4 – 4-ball test machine



## Outstanding resistance to washout by water and metal-machining emulsions

As manufacturers use more aggressive cooling fluids in metal machinery and clamping mechanisms – such as lathe chucks – highly washout-resistant lubricants with reliable tribological performance are a requirement to reduce downtime and minimize relubrication cycles.

MOLYKOTE® P-1042 Adhesive Grease Paste is a light-colored grease-paste fortified with solid lubricants, designed for sliding surfaces exposed to high-pressure loadings and subjected to the influence of water or metal-machining emulsions. With a patented formula specifically designed to properly lubricate clamping mechanisms, MOLYKOTE® P-1042 Paste enables manufacturers to deliver consistent clamping force on lathe chucks. Additionally, MOLYKOTE® P-1042 Paste does not experience hardening issues during service.

## Static machining fluid compatibility test

Grease submerged in machining fluid emulsion at 23°C and occasionally stirred by hand to test whether it can be dissolved in the emulsion

Product	Before test	After 48 hr immersion in machining fluid	Result
Competitive product			Product partially dissolved
MOLYKOTE® P-1042 Adhesive Grease Paste			Excellent consistency retention



## Corrosion protection

Emcor corrosion protection test

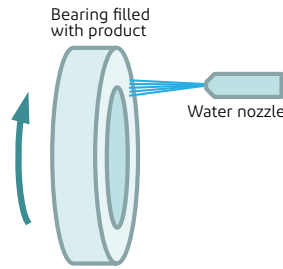


DIN 51802, 7 days, distilled water

**No corrosion**

## Water resistance

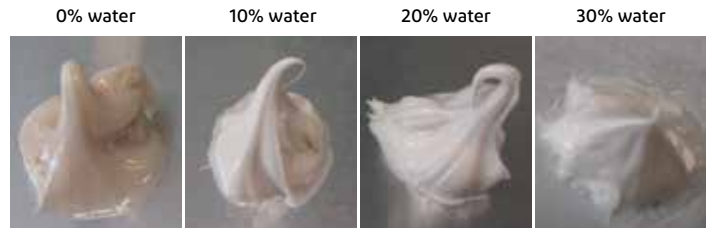
Water washout test



DIN 51807 pt. 2, 1 hr @ 80°C

**< 5 wt%**

Water emulsion test



	0	10	20	30	40
Amount of emulsified water, wt%	0	10	20	30	40
Micropenetration – ISO 2137, mm/10	73	71	70	74	Not possible – water not taken up entirely

**Able to absorb up to 30 wt% of water without loss of consistency**

## Typical properties

Specification writers: These values are not intended for use in preparing specifications. Please contact your local MOLYKOTE® sales representative prior to writing specifications on this product.

Standard	Test	Unit	Result
-	Appearance	-	Light beige
-	Base oil	-	Semi-synthetic
ISO 2137	Worked penetration	mm/10	285 to 320
DIN 51818	NLGI Class	-	1 to 2
ISO 2811	Density @ 20 °C	g/ml	1.28
ISO 2176	Drop point	°C	> 150
DIN 51807 pt. 1	Water resistance, static (90 °C, 3 hr)	-	0 to 90
DIN 51350 pt. 5	4-ball tester wear scar (under 800 N load)	mm	0.75
DIN 51350 pt. 4	4-ball tester weld load	N	9,000
-	Press-fit test	μ	0.1
-	Friction coefficient of bolt connection (M12x1.75, blackened 8.8 bolts)	μ head μ thread	0.12 0.11
DIN 51802	SKF-Emcor method, degree of corrosion	-	0 to 1

## Learn more: Contact us

To learn more about MOLYKOTE® P-1042 Adhesive Grease Paste and its excellent metallic surface adhesion and high washout resistance, contact your MOLYKOTE® technical representative or visit [molykote.com](http://molykote.com).

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