



# MOLYKOTE® P-1042 Adhesive Grease Paste

**MOLYKOTE® P-1042** adhesive paste is a light coloured grease paste fortified with solid lubricants, designed for sliding surfaces exposed to high loads and subjected to the action of water or metalworking emulsions. With a patented formula specifically designed to adequately lubricate clamping mechanisms, **MOLYKOTE® P-1042** Paste enables manufacturers to provide a constant clamping force on chucks. In addition, **MOLYKOTE® P-1042** paste has no hardening problems during service.



## MOLYKOTE® P-1042 Adhesive Grease Paste offers:

### Performance needs

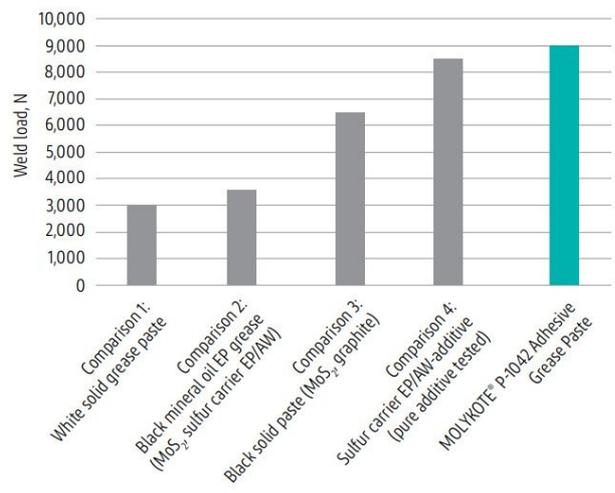
- High load-carrying capacity
- Outstanding resistance to washout by water and metalworking emulsions
- Tribo-corrosion avoidance
- Stick-slip prevention
- Excellent protection against galling

### Advantages

- Provides the desired and prolonged level of clamping force
- Reduced downtime and re-lubrication
- Hazard-free no risk phrases

## 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.

### 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

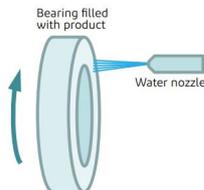
Emcor corrosion protection test



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% water	10% water	20% water	30% water	40% water
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

Property	Unit	Molykote® P-1042
Appearance	—	White/Beige
Base oil	—	Mineral Oil
Unworked Penetration @ 25C	—	265 – 300
Penetration (60 times worked @ 25C)	—	285 – 320
NLGI Class	—	1 - 2
Service Temperature	°C	-25 °C to +120 °C +500 °C (as solid lubricant)
Density	g/ml	1.28
Base Oil Viscosity 40C	mm2/s	Around 500 (calculated)
Dropping point	°C	> 150
Water Resistance 24h @ 90C	—	0-90
4-ball test, wear scar (1492 rpm X 800 N X 1 hour)	mm	0.75
4-ball test, welding load	N	9000
Press-Fit	μ	Around 0.1