

## Introduction

SealXpert® Moly Z Powder is a dry, solid lubricant that is used for applications that are exposed to extreme environments, slow speeds, and heavy loads. It can be used on self-lubricating plastics, metallic surfaces, metal working compounds, brake linings, press fittings, and as a run-in aid.

## Features

- Excellent lubricating properties
- Reduction of friction and wear
- Resistant to oxidation
- Extreme pressure resistance
- Wide service temperature range

## Typical Applications

- As a dry burnished (rubbed-on) lubricating film for metallic contacts
- As a solid lubricant additive for self-lubricating plastics and sinter metal parts
- As a solid lubricant additive in metalworking compounds
- As a solid lubricant additive in brake lining application
- As run-in aid, in press-fittings, in Heavy Loads and Slow Speeds applications and also in extreme environments (for example in dusty atmospheres or extremes of temperatures)

## Typical Properties

Color	Blackish
Consistency	Free flowing powder
Purity (MoS <sub>2</sub> content)	98%
Particle size distribution	90 % <80 μm 50 % <40 μm 10 % <10 μm
Particle size (Fisher Method)	3 – 4 μm
Service temperature range	- 185 to +450 °C
Service temperature range (in vacuum)	Up to 1100 °C
Theoretical density (solid state)	4.5 g/cm <sup>3</sup>
Bulk density (powder state)	1.3 g/cm <sup>3</sup>
Water/moisture content	0.02%
Almen Wieland machine OK load	>20000 N
Press-Fit test	0.06 μ

## Direction for Use

Rub the powder thoroughly in different directions on degreased dry surfaces using a hard brush or window leather. Can be applied by rotary brush, felt or polishing disks. Small parts should preferably be tumble coated. Add to plastic elastomers and sinter metals before forming.

Disclaimer: The information contained herein is considered accurate. However, no warranty is expressed or implied regarding the accuracy of the data, the results to be obtained by the use thereof, or that any such use will not infringe any patent. Before using, user shall determine the suitability of the product for the intended use and user assumes all risk and liability whatsoever in connection therewith.

## Safety and Handling Consideration

Keep away from children.  
 Keep away from fire and avoid high temperature.  
 It's recommended to use the product in well ventilated place.  
 In case of contact with eyes or skin, rinse with clean water immediately.  
 More details, please refer to MSDS of this product

## Recommended Storage:

Stored in a cool and dry location in unopened containers at 8~28°C.  
 When stored at or below 20°C (68°F) in the original unopened bags, this product has a usable life of 60 months from the date of production.