



# Molub Alloy 823FM Greases

Developed for General Lubrication of Food and Beverage Machinery

## Description

Molub-Alloy 823 FM Greases were developed for general lubrication of food and beverage machinery operating in a wide range of temperatures. These FM Greases have been reviewed by the US Department of Agriculture and authorised for use under USDA Inspection and Grading Programs as Code H1 Lubricants, suitable for use where incidental contact with food is possible.

The base fluid, a U.S.P. White Petroleum Oil, and all other ingredients used in 823 FM Grease comply with sections 178.3570 and 178.3620 of the Federal Food, Drug and Cosmetic Act Regulations. Molub-Alloy 823 FM Greases are Kosher and Parve Certified.

A select base oil blend plus an FDA-approved, aluminium complex thickener provide good adhesion, film strength and water-washout resistance even at elevated temperatures. Drip-free characteristics and the off-white colour of Molub-Alloy 823 FM Greases complement housekeeping efforts in food and kindred industries.

A high performance combination of food grade additives provides excellent anti-wear protection. The combination of additives and blending techniques maximise rust and oxidation characteristics for effective rust protection and long service life of the grease.

Molub-Alloy 823-0, 823-1 and 823-2 FM Greases meet NLGI Consistency Grades No. 0, 1, and 2 respectively.

## Advantages

Molub-Alloy 823 FM Greases are H1 lubricants acceptable for use where incidental contact with food is possible.

Very high melting point and non-drip characteristics of this grease minimise product contamination.

Unique water resistance provides continuous protection even when equipment is washed down regularly.

## Applications

823 is recommended for sleeve and antifriction bearings in overhead conveyors and other handling equipment.

823 FM Greases may be applied manually or with automatic dispensing equipment.

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**PLD 1503/01**

**Bulk Item Code – 114087 – Molub Alloy 823FM-0**

**Bulk Item Code – 114090 – Molub Alloy 823FM-1**

**Bulk Item Code – 114091 – Molub Alloy 823FM-2**

## Recommendations

Molub-Alloy 823 FM Greases are not compatible with any other type of grease at temperatures above 120°C. Do not extend lubrication cycles until previous lubricant has been purged.

823 may be exposed briefly to very high temperatures without dripping. However, 823 includes petroleum fluid components which should not be exposed to prolonged high temperatures.

Replenish before grease stiffens.

## Technical Data

TESTS	Molub-Alloy 823 FM Greases		
	823-0	823-1	823-2
<b>NLGI Grade</b>	<b>0</b>	<b>1</b>	<b>2</b>
<b>Penetration, ASTM D 217, Worked 60</b>	<b>355-385</b>	<b>310-340</b>	<b>265-295</b>
<b>USDA/MID Food Grade</b>	<b>H1</b>	<b>H1</b>	<b>H1</b>
<b>Thickener type</b>	<b>- Aluminium Complex -</b>		
<b>Dropping Point, ASTM D 2265,°C</b>	<b>N/A</b>	<b>260</b>	<b>274</b>
<b>Base Fluid Properties: Viscosity, ASTM D 445 @ 40°C, cSt @ 100°C, cSt</b>	<b>192 17.5</b>	<b>192 17.5</b>	<b>192 17.5</b>
<b>Oxidation Stability, ASTM D 942 Pressure drop @ 100 hrs, psi</b>	<b>5</b>	<b>5</b>	<b>5</b>
<b>Emcor Rust Test, DIN 51802, IP 220/67 No. 0 Rating</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>
<b>Water Washout, ASTM D 1264 @ 79°C, % loss</b>	<b>-</b>	<b>3.0</b>	<b>2.5</b>
<b>Roll Stability, ASTM D 1831, points change</b>	<b>5</b>	<b>8</b>	<b>10</b>
<b>Four Ball Wear Test, ASTM D 2266 Scar Diameter, mm</b>	<b>0.53</b>	<b>0.57</b>	<b>0.61</b>
<b>Molub-Alloy Solids Grade Classification</b>	<b>- Food Machinery -</b>		

These technical data are based on average test results. Minor deviations may occur from case to case.

## Health, Safety & Environment

For more detailed information please consult the Castrol Material Safety Data Sheet available on request.

Spillage: Slippery when spilt. Avoid accidents, clean up immediately.  
Isolate leaking containers and stop leak if safe to do so.  
Use absorbent (soil or sand, sawdust, inert material, vermiculite).  
Sweep up.

Disposal: Collect and seal in properly labelled drums for disposal.

All reasonable care has been taken to ensure that the information contained in this publication is accurate as of the date of printing. However, such information may, nevertheless, be affected by changes in the blend formulation occurring subsequent to the date of printing. Material Safety Data Sheets are available for all Castrol Industrial Australia Inc. products. The MSDS must be consulted for appropriate information regarding storage, safe handling and disposal of a product.

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