



Product Data Sheet

MOLUB-ALLOY[®] FOODPROOF 823 FM

Food machinery greases

DESCRIPTION

MOLUB-ALLOY[®] FOODPROOF 823 FM greases were developed for general lubrication of food machinery. They have been approved as "physiologically safe" by the Landesgewerbe-Anstalt LGA Bayern.

MOLUB-ALLOY[®] FOODPROOF 823 FM greases have also been approved by the U.S. Department of Agriculture (USDA) as "H1" lubricants which can be used in the food and beverage industry even if incidental contact with food products is possible.

- A select base oil blend plus an FDA approved thickener provide good adhesion, film strength and water-wash resistance even at elevated temperatures. Drip-free characteristics and the off-white color of MOLUB-ALLOY[®] FOODPROOF 823 FM greases complement house keeping 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 maximize rust and oxidation characteristics for effective rust protection and long service life of the grease.

APPLICATIONS

- MOLUB-ALLOY[®] FOODPROOF 823 FM greases were developed to lubricate food machinery in high-temperature applications where incidental contact with food is possible.
- They are recommended for sleeve and rolling bearings in overhead conveyors and other material handling equipment.
- MOLUB-ALLOY[®] FOODPROOF 823 FM greases may be applied manually or with automatic dispensing equipment.
- Lighter consistency 823-0 FM grease can be used in gear cases where a non-channeling slump grease is needed to control leakage.
- Temperature application range: - 30°C up to – 120°C

ADVANTAGES

- H1 lubricants acceptable for use where incidental contact with food is possible
- very high melting point and non-drip characteristics of this grease minimize product contamination
- unique water resistance provides continuous protection even when equipment is washed down periodically
- physiologically safe (approved by LGA Bayern) - base fluid and all other ingredients used in 823 FM comply with sections 178.3570 and 178.3620 of the FDA guidelines

NOTES FOR USE

- MOLUB-ALLOY[®] FOODPROOF 823 FM greases should not be mixed with greases using a different thickener. Lubrication intervals should be increased gradually to ensure complete removal of previous lubricant.
- At higher temperatures (above 100°C) relubrication intervals should be established by inspection.



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Technical data

	Unit	Value			Test method
		823-0	823-1	823-2	
MOLUB-ALLOY[®] FOODPROOF 823 FM	-	823-0	823-1	823-2	-
Article no.	-	4342	4343	4344	-
Consistency/NLGI grade	-	0	1	2	DIN 51818
Thickener	-	Aluminium complex			-
Worked penetration	0.1 mm	355 – 385	310 – 340	265 – 295	DIN ISO 2137
Dropping point	°C	-	> 230	> 230	ISO 2176
Base oil properties					
Viscosity at + 40°C	mm ² /s	192			DIN 51366
at + 100°C		17.5			
Flash point	°C	> 200			ISO 2592
Behavior in the presence of water (90°C)	rating	0			DIN 51807/1
FAG-FE 9 test (A/1500/6000/120)	-	passed			DIN 51821-02
Oxidation stability (pressure drop after 100 h)	bar	< 0.2			DIN 51808
Copper corrosion (24 h at 100°C)	rating	1			DIN 51811
Emcor test	rating	0/0			DIN 51802, IP 220/67
Roll stability (5 h, 70°C), penetration change	%	≤ 10			ASTM D 1831
Four ball wear test, wear scar diameter	mm	< 0.60			DIN 51350-05-D
Flow pressure at – 20°C	mbar	< 250	< 350	< 550	DIN 51805

1 mm²/s $\hat{=}$ 1cSt

These technical data are based on average test results. Minor deviations may occur from case to case.
For further product information please contact the Technical Service of Castrol Industrie GmbH – Performance Lubrication.

Above data are based on extensive tests and practical experience. Considering the wide range of application requirements, they cannot, however, guarantee success in every single case. We therefore recommend practical trials. We reserve the right to change the product composition with a view to further improvement.

Stand: 11/01