

Flex-Moly

Flex-Moly is a high performance lubricant and anti-seize compound designed for use on threaded fasteners

'Generation of the correct assembly bolt preload in a flanged connection is an essential part of creating a high integrity leak free seal'

Flex-Moly reduces friction improving torque-tension conversion efficiency. Extends fastener life by reducing galling and mitigating corrosion. Facilitates disassembly, even after long term exposure to extreme service conditions

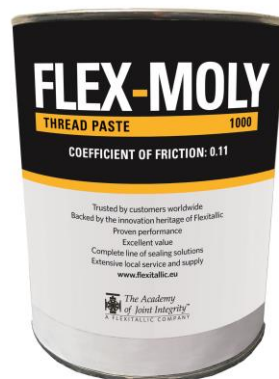
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We reserve the right to change the details given on this Data Sheet as additional information is acquired. Customers requiring the latest version of this Data Sheet should contact our Applications Engineering Department.

The information given and, in particular, any parameters, should be used for guidance purposes only. The Company does not give any warranty that the product will be suitable for the use intended by the customer.

Health & Safety

For further Health and Safety information please see the relevant Material Safety Datasheets or contact Flexitallic UK Ltd.



Description

Flex-Moly solid lubricant paste is a lead and nickel free lubricant and anti-seize compound specially formulated to reduce wear and friction between the mating surfaces of threaded fasteners.

Flex Moly forms a high load bearing film between metal contact faces facilitating non-destructive dismantling of flanged connections after long term exposure to high temperatures and stresses.

Flex-Moly offers high levels of environmental and in-service corrosion protection. In addition Flex Moly has been carefully formulated to prevent stress induced corrosion.

Service

Suitable for pressure boundary flanged bolted connections that are subject to temperatures ranging from -30°C (-22°F) up to 650°C (1202°F). Flex-Moly is suitable for use with most common bolt materials with both coarse and fine thread forms.

Flexitallic recommend that Flex-Moly is used as part of a controlled flange assembly procedure in line with industry best practice. Please contact Flexitallic Applications Engineering Dept. for further guidance.

Availability

Available in 500g and 1kg tin.

Application

Ensure the paste is thoroughly mixed prior to use. All fastener mating surfaces should be clean and free from debris, if necessary clean the threads and nut abutment surfaces with a wire brush. Apply the paste liberally to the fastener threads ensuring thorough coverage especially over the working length of the threads. Apply the paste to the abutment surface of the nut. There should be no or very little resistance when manually running the nut up along male thread.

THIS PASTE MUST NOT BE MIXED WITH ANY OTHER COMPOUNDS, GREASE OR OILS.

Physical properties

Coefficient of Friction:	0.11
Average (μ_a)	0.13
Thread (μ_t)	0.08
Abutment face (μ_c)	0.17
K factor	
Temperature Range	-30°C to 650°C
Physical State	Solid Paste
Colour	Brown
Specific Gravity	1.25 g/cc