

PRODUCT BULLETIN

Title: Approved Lubricant for SPX Flow Rail Clamplock Systems
Product Line: Rail Systems - Clamplock
Document #: PMB2201
Date: 25th August 2022

Product Affected: All Clamplock systems

Distribution: Internal and External

Description: To maintain the safety, reliability, and stipulated working life of the Clamplock system, it is imperative that the lubricant, the applicator, and the maintenance regime meet the original design specification of the Clamplock product.

Both lubricant and its applicator are specifically chosen not only because it meets the requirements of the Clamplock components long term lubrication needs, but also forms part of our safety case regarding UKCA/CE legislation, and the environmental impact, or lack of impact, in use.

The SPX Flow Rail approved system is the Greasomatic® automatic applicator (as fitted to MK2 systems) filled with Biolube Ropesield 00, and the Perma NOVA automatic applicator (as fitted to MK3 systems) filled with Rocol Biogen Wiresield.

Key benefits and why they are important are listed below.

- Both lubricants are Molybdenum Disulphide based, which provides a strongly bonded protective barrier on the metal surface by means of electro-chemical reaction to prevent wear. This is a pre-requisite of the Clamplock component design need, alternative solid lubricant, such as PTFE for example, may not provide adequate surface protection.
- The lubricant is rheopectic which means that it becomes more viscous (thicker) under constant vibration / agitation, typically providing long term protection from vibration effects as the train passes through
- Well homogenized and does not settle/sediment or require agitation
- The Greasomatic® and Perma NOVA automatic applicators are matched to the application insofar as they contain sufficient lubricant to maintain the Clamplock 'C-Slot' void full at all times, not allowing ingress of contaminants which lead to corrosion, blockages and ultimately failure.

From an environmental aspect.

- The lubricant is both biodegradable and non-toxic. It will not harm algae, daphnia or fish should it enter the water table.
- It does not contain any flammable solvents or form explosive vapour mixtures. Because the lubricant is in close proximity to a heat source, this is paramount.
- Under HSE COSHH-e Assessment, it triggers no hazard statements. Molybdenum Disulphide, being the base for the lubricant, is found naturally in the environment and has no concerns regarding a persistent chemical nature. Some substances, such as PTFE for example, is not biodegradable in a natural environment and is classed as a 'Forever Chemical'. These substances have come under scrutiny from Environmental Agencies worldwide due to their potential health risks to human, wildlife, and marine life.

In consideration to the above, SPX Flow Rail would advise that using any other lubricant other than that which is approved by SPX Flow Rail may reduce the Clamplock reliability in the long term. Due to potential long-term issues, the use of non-approved lubricants and applicators may invalidate any warranties provided by SPX Flow Rail for the Clamplock product.

We would recommend that SPX Flow Rail be contacted for advice prior to substituting any lubricant or applicator

Effective Date: Immediate

Contact: For questions regarding the above, please contact your local sales representative, customer service representative, or the Product Management Team

Best Regards,



David Campbell
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SPX FLOW, Inc