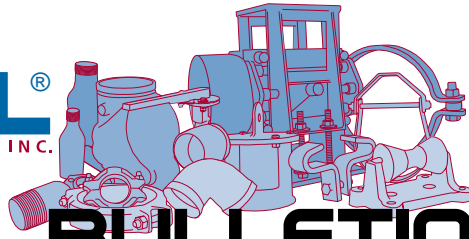




ANVIL[®]
INTERNATIONAL, INC.



TECHNICAL BULLETIN

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New products and developments from Anvil International, Inc.

Gruvlok[®] Extreme Temperature Lubricant improves coupling performance.

GRUVLOK[®] Extreme Temperature Lubricant improves the performance of GRUVLOK couplings in all copper systems and systems subjected to extreme temperatures (low, high and fluctuations). The results have been so dramatic that Anvil International strongly recommends Specifications including GRUVLOK Couplings in combination with Extreme Temperature Lubricant for the following systems:

- All copper installations
- Installations below -20°F
- Installations above 180°F
- Installations that are subject to temperature cycles

GRUVLOK Extreme Temperature Lubricant has an operating temperature range, from -65°F to 400°F, that far exceeds the temperature range of ANY grooved product gaskets. This lubricant is waterproof, eliminating water washout, and will not dry out in the absence of water. Extreme Temperature Lubricant meets the requirements of NSF 61. GRUVLOK Extreme Temperature Lubricant will be there when it's needed.

Aggressive applications require that the gasket be lubricated both inside and out. The lubricant on the outside of the gasket will enhance the ease of installation; help the gasket into the proper sealing position during temperature cycles, and provide a protective barrier to the elastomer. The lubricant on the inside of the gasket will act to improve the chemical resistance of the gasket material by providing a thin lubricant barrier between the piping system fluid and the gasket compound. This is particularly important at higher temperatures where oxidizing agents in the piping

system become more aggressive. Recirculating hot water systems generate environments that are very aggressive to elastomers. This is due to elevated system operating temperatures and the fact that fresh make-up water is constantly being added to replenish the hot water that is used. The make-up water brings with it fresh oxygen, chlorine, and other minerals that are released when the water is heated. Applying Extreme Temperature Lubricant on the inside of the gasket provides an extra level of assurance against degradation of the GRUVLOK gasket from chemical attack.

Lubricating the internal gasket surface will ensure that the lubricant is present when the internal surfaces of the gasket move against each other as the gasket and coupling react to, and accommodate, movements within the piping system. Dual pipe HVAC systems that serve to convey heating and cooling water force the gaskets and couplings to continually absorb piping movement caused by heating and cooling. GRUVLOK Extreme Temperature Lubricant provides proven benefits in these systems.

Testing and performance of GRUVLOK Extreme Temperature Lubricant have shown such dramatic results in the above-mentioned systems, that no other lubricant should be considered in water systems. Gasket compatibility must still be considered for other types of systems, and care should be taken, as some facilities do not allow silicone-based lubricants.

Your Anvil Representative should be consulted for additional recommendations.