

# DRY FILM LUBRICATION

## Applications

Space  
(Vacuum)

Flow Meters  
(Gas/Fuel)

Medical Centrifuge  
(Assisted with Grease  
for High-Speed)

Magnetic/Electrical  
Environment

Semiconductor Processing  
(High Vacuum)



## Increased reliability and optimal performance for harsh applications.

NHBB ultra-precision miniature & instrument bearings with Diconite® dry film lubrication provide increased reliability and assist in attaining optimal performance while extending operational

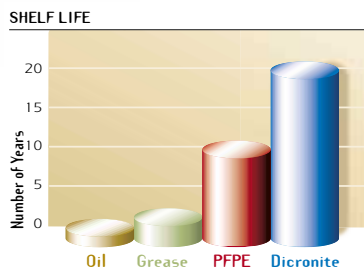
life, even in harsh applications. Diconite DL-5 modified tungsten disulfide is a wear-resistant,

low-friction lubricant that is inert, non-toxic, non-magnetic, vacuum stable, and non-corrosive. The use of dry film lubrication is an option when extended shelf life (up to 20 years), low outgassing and/or improved corrosion resistance is needed.

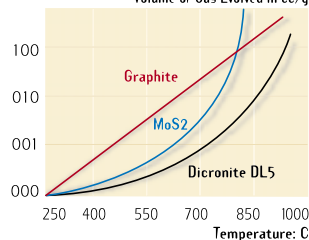
Diconite DL-5 particles form a non-transferable molecular bond, which adheres firmly to the surface substrate of all metals. The load carrying capacity of the coating itself is in excess of 350,000 PSI and is resistant to most fuels, solvents and acids. Although Diconite can assist in maintaining a corrosion resistant environment, it may not be suitable for washdown or intermittent submersion.

For low and moderate speed applications, Diconite DL-5 enhances the performance of all oils and

greases. Please feel free to consult with us early in your design phase to learn about our latest developments in bearing technology.

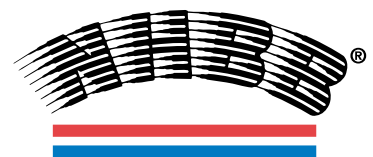


Outgassing Characteristics In Vacuum  $10^{-14}$  Torr  
Volume of Gas Evolved in cc/g



## Advantages

- Low Outgassing
- Improved Corrosion Resistance
- Extended Shelf Life
- Low Friction
- Enhanced Performance Of Oils And Greases



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