



# Krytox™ XHT-BD, XHT-BDX, and XHT-BDZ

Performance Lubricants

## Product Information

Krytox™ XHT-BD series oils are special extreme high temperature greases with low oil evaporation that are thickened with a non-melting thickener to allow use at temperatures above the melting point of common greases. They have excellent lubrication over a broad temperature range. Krytox™ XHT-BD series greases are nonflammable and chemically inert. Krytox™ allows extended lubrication intervals and longer equipment life.

Krytox™ XHT-BD greases are designed for use where the temperatures are in the 288 °C (500 °F) range and higher, where there is a danger of melting the standard PTFE thickener. This grease uses a special non-melting high temperature thickener. The base oil is an extremely viscous oil that provides good viscosity and lower evaporation at high temperatures. Krytox™ XHT-BD greases are for use in low speed bearings or in pillow housings and will shear at high speeds, causing loss of oil in sealed bearings. The oil in the grease can begin to slowly evaporate at temperatures above 330 °C (626 °F), and this will occur at an increasing rate as temperatures increase. Re-lubrication could be required at these temperatures to achieve optimum life.

### Compatibility with Metals

Due to their low surface tensions, Krytox™ oils easily wet metallic surfaces; and, because of their inertness, Krytox™ oils have little or no adverse effect on metals. Testing of metals at 340 °C (644 °F) in the absence of air has shown little evidence of corrosion. In the presence of air, corrosion was slightly higher. The presence of molybdenum in the metals improved corrosion resistance.

**Typical Properties of Krytox™ XHT-BD Series PFPE Grease\***

	XHT-BD	XHT-BDX	XHT-BDZ
Standard NLGI Penetration Grade	1.5	1.5	1.5
Estimated Useful Range, °C (°F)	-20–300 (–4–572) with spikes to 330 (626)	-15–350 (5–662) with intermittent spikes to 400 (752)	-5–360 (23–680) with intermittent spikes to ≥400 (≥752)
Pour Point, °C (°F)	-25 (–13)	-20 (–4)	-15 (5)
Base Oil Viscosity, cSt			
20 °C (68 °F)	1,712	2,610	3,500
40 °C (104 °F)	500	738	1,023
100 °C (212 °F)	47	65	88
Oil Separation in 30 hr at 99 °C (210 °F), %	6	5	5
Oil Volatility in 22 hr at 260 °C (500 °F), %, D2595	2.1	1.5	1.1
Vapor Pressure, torr			
20 °C (68 °F) (Knudsen)	≤1 x 10 <sup>-9</sup>	≤3 x 10 <sup>-14</sup>	≤4 x 10 <sup>-15</sup>
100 °C (212 °F) (Knudsen)	≤8 x 10 <sup>-7</sup>	≤1 x 10 <sup>-9</sup>	≤2 x 10 <sup>-10</sup>
200 °C (392 °F) (Knudsen)	≤1 x 10 <sup>-4</sup>	≤2 x 10 <sup>-6</sup>	≤3 x 10 <sup>-7</sup>
Appearance	White, creamy consistency	White, creamy consistency	White, creamy consistency
Specific Gravity at 0 °C (32 °F)	2.00	2.00	2.00

\* This table gives typical properties (not specifications) based on historical production performance. Chemours does not make any express or implied warranty that these products will continue to have these typical properties.

The information set forth herein is furnished free of charge and based on technical data that Chemours believes to be reliable. It is intended for use by persons having technical skill, at their own discretion and risk. The handling precaution information contained herein is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards. Because conditions of product use are outside our control, Chemours makes no warranties, express or implied, and assumes no liability in connection with any use of this information. As with any material, evaluation of any compound under end-use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.

NO PART OF THIS MATERIAL MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM OR TRANSMITTED IN ANY FORM OR BY ANY MEANS ELECTRONIC, MECHANICAL, PHOTOCOPYING, RECORDING OR OTHERWISE WITHOUT THE PRIOR WRITTEN PERMISSION OF CHEMOURS.

For product information, industry applications, technical assistance, or global distributor contacts, visit [krytox.com](http://krytox.com) or within the U.S. and Canada, call 1-844-773-CHEM/2436 or outside of the U.S., call 1-302-773-1000.

© 2015 The Chemours Company FC, LLC. Krytox™ and any associated logos are trademarks or copyrights of The Chemours Company FC, LLC. Chemours™ and the Chemours Logo are trademarks of The Chemours Company.

Replaces: H-91815-5  
C-10352 (11/15)