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# SHELL STAMINA<sup>®</sup> GREASE HSX 2

## Polyurea grease for lubrication of bearings under extreme pressure

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### Product Description

**Stamina<sup>®</sup> Grease HSX 2** is a specially formulated polyurea grease containing a synthetic base oil and high performance corrosion and oxidation inhibitors. In addition, it also contains molybdenum disulfide (“moly”) as a lubricity adjunct. This grease is especially suitable for lubrication of bearings under extreme temperature conditions.

### Recommendations/Applications

**Stamina Grease HSX 2** is recommended for the lubrication of bearings in equipment under adverse conditions. It is especially successful in high temperature service such as those found in dryer sections of paper machines and slow moving equipment such as stokers, coal burning boilers and municipal waste boilers. **Stamina Grease HSX 2** is also suitable for the lubrication of furnace door bearings, kiln car wheel bearings and shafts extending through furnaces. The presence of “moly” provides added lubricity protection. **Stamina Grease HSX 2** is formulated to perform well in conditions of temperature extremes.

### Features

**Stamina Grease HSX 2** is formulated using a polyurea thickener, special additives, and an ISO 460 synthetic base oil. It contains molybdenum disulfide and is characterized by a high dropping point (above 450°F). Stamina HSX Grease 2 exhibits excellent resistance to water, corrosion, and oxidation. It offers outstanding performance over a wide range of operating temperatures and is able to withstand extended high operating temperatures. This grease will allow bearings to start and run even at low ambient temperatures and is especially recommended where frequent equipment relubrication may be difficult or impossible to achieve in service. The combination of the synthetic base oil and the polyurea thickener reduces service hardening of the greases at prolonged elevated temperatures.

The presence of “moly” provides an extra measure of protection in shock loading situations. During heavy shock loading, the lubricant film between metal surfaces can be temporarily ruptured or squeezed out. By using a “moly” grease, a film remains to prevent metal-to-metal contact which could cause equipment damage. The presence of “moly” is also valuable in dirty environments or when proper re-greasing intervals are not followed. Some “moly” tends to stay in place and protect metal surfaces even when insufficient grease is used.

### Benefits

- long bearing life
- excellent high temperature properties and oxidation stability
- superior water resistance and corrosion protection
- excellent heavy and shock loading protection

### Recommendations and Approvals

**Stamina Grease HSX 2** is recommended in high temperature applications, where conventional greases tend to harden such as stokers, coal burning boilers and municipal waste boilers. It is also recommended for use in heavy duty industrial applications especially where excessive exposure to high loading is problematic. Because of this **Stamina Grease HSX 2** is particularly suited in stoker and paper mill applications.

## Product Maintenance

Maintaining a clean work environment is critical when equipment greasing is performed. Grease fittings should be wiped clean prior to grease injection to prevent contaminants from entering the equipment. Bearing housings should be maintained one-third to one-half full of grease. Over-greasing should be avoided as excessive heat buildup can result. Periodic relubrication via grease gun or centralized system should be supplemented by complete cleaning and packing with fresh grease on an appropriate schedule. Shell greases are available with or without drum liners to facilitate disposal in compliance with local regulations.

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## Typical Properties for Shell Stamina Grease HSX 2

Code No.	Test Method	71224
NLGI Grade		2
Appearance		Dark Gray
Texture		Smooth
Polyurea Thickener, Wt %	(Calc)	15.0
PAO Base Fluid Viscosity		
@ 40°C, cSt	D 445	460
@ 100°C, cSt	D 445	41.5
Penetration	D 217	
Worked, 60X		280
Worked 10,000X, % Change		20
Dropping Point, °F	Mettler	500+
Oil Separation, wt%	D 1742	0.2
Evaporation Loss, wt%	D 972	0.4
Rust Protection	D 1743	Pass
Copper Corrosion	D 4048	1b
Water Washout wt% loss at 175°F	D 1264	1.0
Wheel Bearing Life B50, hours	D 3527	300+
Guide to Usable Temperature		
Min, °F		-40
Continuous Service, Max, °F		350
Short Exposure, Max, °F		450

## Handling Practices

For information on the safe handling and use of these products, refer to their Material Safety Data Sheets at <http://www.equivashellmsds.com>. For more information and availability, call 1+800-782-7852.