



Shell Stamina Greases RLS 2

Premium quality industrial bearing grease

Shell Stamina Grease RLS 2 is a very high technology grease designed to give optimum performance for grease lubrication in industrial bearings.

It based on synthetic oil with a special diurea thickener to give long life, low wear and shear-stable properties at high temperatures.

Applications

Shell Stamina Grease RLS 2 is particularly recommended for use in high temperature up to 180°C, lightly loaded industrial bearings. It is recommended for use where long operational life and extended re-greasing intervals are an important consideration

Performance Features

- *Outstanding bearing life at high temperatures*
- *Excellent wear protection*
- *Excellent mechanical stability*
- *Excellent oxidation resistance*
- *Low oil separation*
- *Excellent corrosion protection*
- *Resists water washout*

High Temperature Performance

The diurea thickener used in Stamina RLS 2 has a high melting point and the grease performance is limited only by the properties of the base oil and additive components.

The low volatility and excellent oxidation stability of the base oil are such that they give an excellent service life in bearings operating between -40°C and +180°C.

With caution, Shell Stamina Grease RLS 2 may, in some circumstances, be used at temperatures up to 200°C, but only if the re-lubrication period is suitably adjusted.

Oxidation Stability

Stamina RLS 2 has a superior high temperature oxidation inhibitor system to ensure that it will withstand high operating temperatures without forming deposits. Unlike the soap thickeners used in most greases, the diurea thickener in Stamina RLS does not catalyse grease oxidation, indeed the diurea thickener offers inherent anti-oxidant properties. This contributes to longer grease life at higher temperatures.

The base oil component of Stamina RLS 2 is a specially selected high viscosity index synthetic hydrocarbon mixture with excellent oxidation and evaporation resistance.

Corrosion Protection

When a bearing is running, most high quality greases can maintain an adequate lubricating film even when the grease is contaminated with water. However when the grease bearing is idle corrosion may occur causing pitting which can be detrimental. Stamina RLS 2 is formulated with corrosion inhibitors to help protect bearing surfaces even when the grease is contaminated by water.

The lubrication properties of Stamina RLS 2 are unimpaired by small quantities of salt water.

Operating Temperature Range

Shell Stamina Grease RLS 2

-40°C to +180°C (200°C peak)

Re-lubrication

Grease life varies considerably from application to application, even with bearings operating under nominally identical conditions. Variables such as air flow, dirt and humidity can have a considerable effect in addition to the more commonly recognised parameters of load, speed and temperature.

The use of Stamina RLS 2 usually permits considerable extension of the re-lubrication interval over conventional, mineral oil greases..

Sealing

The rheology of Stamina RLS 2 is such that at low shear rates and with heating the consistency increases. Consequently, in bearings operating at high temperatures the grease remains in place providing good sealing and continuous lubrication even in the presence of vibration.

Water Washout

Stamina RLS 2 exhibits very good resistance to water washout.

Health & Safety

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet at <http://www.shell-lubricants.com/msds/>.

If you are a Shell Distributor, please call **1+800-468-6457** for all of your service needs. All other customers, please call **1+800-840-5737** for all of your service needs. Information is also available on the World Wide Web:

<http://www.shell-lubricants.com/>.

Typical Physical Characteristics

Shell Stamina Grease	RLS 2
NLGI Consistency	2
Material Number	
120 lb Kegs	5076236
10/14.1 oz Cartridges	5069667
Color	Brown
Soap Type	Polyurea
Base Oil (type)	Synthetic
Kinematic Viscosity (ASTM D445)	
40°C cSt	100
100°C cSt	13
Cone Penetration (ASTM D217)	
Worked @ 77°F 0.1 mm	265 - 295
Dropping Point, °F (ASTM D2265)	> 500
FAG FE-9 Test (DIN 51821) L50 hrs (6000 rpm, 1500 N, 180 °C)	> 100
Pumpability	Fair
Long distance	

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.