

SHELL GADUS S5 T100

ADVANCED MULTI-PURPOSE GREASE

PREVIOUSLY SHELL STAMINA RLS

DESIGNED TO MEET CHALLENGES



Shell Gadus S5 T100 Grease is a very high technology grease designed to give optimum performance for grease lubrication in industrial bearings.

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

PERFORMANCE FEATURES

- n Outstanding life at high temperatures
- n Excellent wear protection
- n Excellent mechanical stability at high temperatures
- n Excellent oxidation resistance
- n Low oil separation
- n Versatile.

EXCELLENT CORROSION RESISTANCE

- n Provides protection from the elements of corrosion.

WATER RESISTANT

- n Withstands washing with water, preventing loss of protection.

APPLICATIONS

Shell Gadus S5 T100 Grease 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.

HIGH TEMPERATURE PERFORMANCE

The diurea thickener used in Shell Gadus S5 T100 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 Gadus S5 T100 Grease may, in some circumstances, be used at temperatures up to 200°C, but only if the re-lubrication period is suitably adjusted.

OXIDATION STABILITY

Shell Gadus S5 T100 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 Shell Gadus S5 T100 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 part of Shell Gadus S5 T100 is a specially selected synthetic component 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. Shell Gadus S5 T100 is formulated with corrosion inhibitors to help protect bearing surfaces even when the grease is contaminated by water.

The lubrication properties of Shell Gadus S5 T100 is unimpaired by small quantities of salt water.

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 Shell Gadus S5 T100 usually permits considerable extension of the re-lubrication interval.

SEALING

The rheology of Shell Gadus S5 T100 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

Shell Gadus S5 T100 exhibits very good resistance to water washout by immersion or spray.

TYPICAL PHYSICAL CHARACTERISTICS

CHARACTERISTICS	2
Colour	Brown
Soap Type	Polyurea
Base Oil Type	Synthetic
Kinematic Viscosity (IP 71/ASTM D 445) @ 40°C mm ² /s	100
@ 100°C mm ² /s	14
Cone Penetration Worked @ 25°C 0.1mm (IP 50/ASTM D 217)	265–295
Dropping Point °C (IP 132/ASTM D 566-76)	250
FAG FE-9 Test L50 hrs @ 180°C	>100
Pumpability (long distance)	Fair