



Previous Name: **Shell Darina XL 102 Moly**

# Shell Gadus S5 U100KD

*Advanced Multipurpose Grease with Solids*

- **Extreme Low Temperature**
- **Centralized Systems**
- **Clay**

Shell Gadus S5 U100KD is an all season full synthetic grease. The superior high temperature capability of **Shell Gadus S5 U100KD** grease ensures dependable lubrication in a wide range of operating temperatures from a maximum of about 170 °C down to -45 °C.

## APPLICATIONS

**Shell Gadus S5 U100KD** grease has been designed for optimum year round protection. Its synthetic formulation ensures performance in extreme temperatures in severe applications where No Compromise is acceptable

## PERFORMANCE BENEFITS

**Shell Gadus S5 U100KD** grease provides the following additional benefits and features:

- **Superior High Temperature Performance and Oxidation Resistance** - extremely stable at high temperatures. It won't melt like conventional soap based greases and also exhibits superior resistance to oxidation ... this helps ensure long grease and equipment life.
- **Excellent Load Carrying Ability** - formulated with non-leaded extreme pressure additives and moly disulphide to provide excellent load carrying properties – which minimize your equipment wear.
- **Excellent Low Temperature Performance** – outstanding low temperature mobility and dispensability – reducing inventory changes while ensuring year round protection.
- **Outstanding resistance to water washout.** It leaves a tenacious film which can often result in extended lubrication intervals and reduced operating costs.

**Typical Physical Characteristics**

<b>Shell Gadus</b>	<b>ASTM Method</b>	<b>S5 U100KD</b>
NLGI Grade		1
Color		Grey
Appearance		Smooth
Dropping Point °C	D2265	>280
Thickener Type		Clay (1)
Worked Penetration 60 strokes @ 25°C	D217	320 - 340
Estimated Operating Range °C		-45 to 170
Minimum (2) Dispensing Temperature, °C		-40
Mobility @ -35 °C, g/min @ -40 °C, g/min	USS DM 43	3.8 2.0
Low Temperature Torque, N.m.	D4693	1.3
Base Oil Viscosity, cST @ 40°C	D445	100
Oil Separation, % mass @ 25°C, 24h	D1742	2.0
Oil Separation, % mass @ 40°C, 18h	IP121	1.8
EP Tests		
4 ball, Weld Load, kg	D2596	315
4 ball, Load Wear Index	D2596	70
4 ball, Wear Scar, mm	D2266	0.6
Timken OK Load, kg	D2509	20.4
Water Wash Out, % Loss @ 79°C	D1264	2.9
Corrosion Tests		
48 hour @ 52°C	D1743	Pass
Fafnir Fretting, mg	D4170	1.2

(1) previously referred to as "Microgel"

(2) vary with design of grease gun or centralized system

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