



## Royal Tundra Blue Grease

### *Synthetic Calcium Sulfonate Grease for Cold Climate Conditions*

**Royal Tundra Blue Grease** is long life, fully synthetic, calcium sulfonate complex grease specially designed for extended service life under arctic climate conditions. This grease is formulated with fully synthetic Poly Alpha Olefin (PAO) base oils and is engineered with compatible additives. This helps to ensure the highest performance even in heavy/shock load applications. Calcium sulfonate complex thickener makes this grease water resistant under water ingress or freezing conditions; it will continue flowing under sub-zero temperatures. Unlike other calcium sulfonate greases available, this grease exhibits excellent pumpability characteristics at low temperatures.

**Royal Tundra Blue Grease** is recommended for the most severe applications in the industry with excellent performance, oxidation resistance and a wide operating temperature range, and is recommended for centralized lubrication systems due to its excellent pumpability

#### **Product Features:**

- Wide range of operating temperatures-54 °C to 250 °C
- High Timken & Weld Load for outstanding EP performance
- Exceptional Mechanical Stability
- High Drop Point-Suitable for high temperature application
- Excellent rust protection
- Excellent water resistance and salt water protection

#### **Customer Benefits:**

- Excellent performance under heavy and shock loads
- Forms protective film on metal surface and protects equipment from rust and water even at low temperatures
- Does not drip out under running conditions even at low temperatures
- Extraordinary performance at high temperatures
- Protects equipment from rusting under wet and water ingress conditions
- Extended service life

#### **Applications**

- **Royal Tundra Blue Grease** is highly recommended for mining, marine, oil fields and logging applications, especially in arctic climate conditions. Besides excellent performance at low temperatures, this grease is suitable for other industrial applications where extended service life is needed like steel mills, mining and off-highway applications.

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*Synthetic Calcium Sulfonate Grease for Cold Climate Conditions*

Product Code	9520BB	9520BA	Test Method
NLGI	1	2	-
Thickener Type	Calcium Sulfonate Complex	Calcium Sulfonate Complex	-
Color	Blue	Blue	Visual
Base Oil Viscosity SUS @100 °F	1164	1164	ASTM D-445
SUS @210 °F	115.3	115.3	ASTM D-445
cSt @ 40 °C	223	223	ASTM D-445
cSt @100 °C	23.2	23.2	ASTM D-445
Viscosity Index	>120	>120	-
Drop Point, °F	+500	+500	ASTM D-2265
Worked Penetration at 25°C	310-340	265-295	ASTM D-217
Change after 100,000 strokes	< +20	< +20	-
Oil Separation, 25 °C, 24 Hrs. , %	0.60	0.45	ASTM D-1742
Four Ball Weld load, kg	400	500	ASTM D-2783
Timken OK Load, lbs.	>60	>65	ASTM D-2509
Wear Scar Dia, mm	0.40	0.40	ASTM D-2266
Water Washout, wt. % loss@175 °F	3.5	2.3	ASTM D-1264
Rust Test, rating	Pass	Pass	ASTM D-1743
USS Mobility Test.	-	-	USS DM 43
@ -20 °F , gm/min	39.2	23.4	-
@ -40 °F , gm/min	8.6	8.6	-