Technical Data Sheet

Shell **Gadus** *S5 V150XKD 0/00*

- *Extreme Heavy-Duty protection*
- *Ultra Low Temperatures*
- *Lithium Calcium*

Multi-purpose grease with 5% molybdenum disulfide for mining and heavy-duty equipment applications

Shell Gadus S5 V150XKD 0/00 is part of Shell's comprehensive range of multi-purpose mining and construction equipment greases, which offers protection from sustained heavy duty operations and shock loads in all climates and seasons. This advanced, fully-synthetic grease offers excellent mobility even in Arctic winter conditions, for reliable delivery through central lubrication systems. Shell Gadus S5 V150XKD 0/00 is formulated to excellent all-round performance, balancing mobility, load-carrying capability and long effective life in hostile operating conditions.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Specifically designed for cool and cold climates, including Arctic winters**

  Formulated with fully-synthetic base fluid to retain mobility at colder temperatures (down to -50°C or -58°F in central lubrication systems). There is a broad overlap in operating temperature range between this grease and others in the range, allowing for flexible seasonal transitions.

- **Enhanced load-carrying and wear protection properties**

  Contains 5% moly and other specially-selected additives to handle sustained heavy duty operations and shock loads. The product features excellent low- temperature torque and lubricity for reliable protection across the entire ambient operational temperature range.

- **Excellent mechanical stability even in challenging operating conditions**

  Consistency retained during extended operating periods, even when exposed to mechanical shear and vibration.

- **Effective in wet conditions**

  Proven water resistance and corrosion protection performance in the presence of large amounts of water.

- **Oxidation stability for long life**

  The synthetic base fluid components have remarkable oxidation resistance. The grease consistency will not alter in storage and will withstand high operating temperatures without hardening or forming deposits on components.

Main Applications

Shell Gadus S5 V150XKD 0/00 is primarily intended for the grease lubrication of heavy-duty, slow-moving components such as pins and bushes, and sliding surfaces. It is designed for use in large mobile equipment in the mining industry and sectors such as quarrying and heavy construction. Solid additives facilitate the sliding motion and protect surfaces of plain bearings, pins and bushings.

Specifications, Approvals & Recommendations

- Bucyrus SD 4711 and the P&H 472 specification for heavy duty off-road and mining equipment

  For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

Typical Physical Characteristics

Properties			Method	Shell Gadus S5 V150XKD
NLGI Consistency				0/00
Colour				Black
Thickener				Lithium - Calcium
Base Oil (type)				Synthetic
Kinematic Viscosity	@40°C	mm^2/s	IP 71 / ASTM D445	150

Properties			Method	Shell Gadus S5 V150XKD
Kinematic Viscosity	@100°C	mm^2/s	IP 71 / ASTM D445	19
Four Ball Weld Load		N	ASTM D2596	4000
Pumpability Long Distance				Good
Low Temperature Flow Pressure	@-46°C	mbar	DIN 51805	Max 1400

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

Health, Safety & Environment

- **Health and Safety**

  Shell Gadus S5 V150XKD 0/00 is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

  Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

  Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from http://www.epc.shell.com

- **Protect the Environment**

  Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

Additional Information

- **Operating temperatures**

  -50°C to +15°C in open applications, and up to 130°C in closed bearings.

- **Re-greasing Intervals**

  For bearings operating near their maximum recommended temperatures, re-greasing intervals should be reviewed.

- **Note**

  Care should be taken to ensure that the grease does NOT come into contact with hydraulic brake rubber components.

- **Advice**

  Advice on applications not covered here may be obtained from your Shell representative.