Technical Data Sheet

Formerly Known As: **Shell Stamina Grease HDS**

# Shell **Gadus** *S5 T460 1.5*

- Heavy Duty Protection
- Extreme Temperature
- Polyurea

***Advanced Multipurpose Heavy Duty Grease***

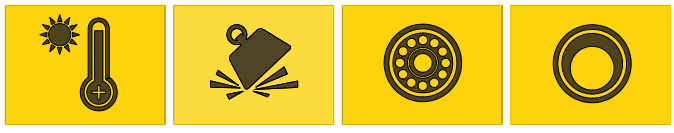
Shell Gadus S5 T460 Grease is a high performance, high temperature, long life grease for heavy duty industrial applications.
It uses fully synthetic base stocks and the latest technology diurea thickener. It contains the latest additives to offer excellent high temperature oxidation performance and other additives to enhance its anti-oxidation, anti-wear and anti-corrosion properties.
Shell Gadus S5 T460 Grease is especially suitable for sealed & semi-sealed applications involving slow moving, heavy-duty bearings operating at high temperature and under severe load.

## DESIGNED TO MEET CHALLENGES

### Performance, Features & Benefits

- **High base oil viscosity to meet leading OEM requirements for slow moving large bearings**
  Based upon the latest diurea grease technology proven in Steel, Paper, Wind Mills & other industries in Japan and around the world.
- **Excellent resistance to high temperatures & "heat soak"**
  Synthetic base stocks combined with the inherent oxidation resistance of the diurea thickeners combine to give class leading performance in this area.
- **Enhanced extreme-pressure properties**
  Excellent load-carrying performance.
- **Excellent water resistance**
  Ensures lasting protection even in the presence of large amounts of water.
- **High dropping point**
  Resistant to high temperatures.
- **Effective corrosion protection**
  Ensures components/bearings do not fail due to corrosion.

### Main Applications



Shell Gadus S5 T460 Grease can be used for the grease lubrication of heavy-duty, slow moving bearings (both sealed & semi sealed) used in machinery found in the following industries:

- Steel
- Cement
- Paper
- Wind Power
- Chemical Industry
- Mining

### Specifications, Approvals & Recommendations

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

## Typical Physical Characteristics

| Properties | | | Method | Shell Gadus S5 T460 1.5 |
|---|---|---|---|---|
| NLGI Grade | | | | 1.5 |
| Colour | | | | Light brown |
| Soap Type | | | | Diurea |
| Base Oil (type) | | | | Fully synthetic |
| Kinematic Viscosity | @40°C | cSt | IP 71 / ASTM D445 | 460 |
| Cone penetration, Worked | @25°C | 0.1mm | IP 50 / ASTM D217 | 295 |
| Dropping Point | | °C | IP 396 | 250 |
| Pumpability Long Distance | | | | Good |

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 T460 1.5 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 https://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

- **Re-greasing Intervals**

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

- **Operating Temperature**

  Shell Gadus S5  T460 1.5 is recommended for the operating temperature range -40°C to +180°C. (peak 190°C).

- **Advice**

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