



Previous Names: **Shell Alvania Grease HDX and Shell Retinax HDX**

# Shell Gadus S2 V220AD

## High Performance Multipurpose Grease with Solids

- **Heavy Duty Protection**
- **Water Resistant**
- **Lithium Calcium**

Shell Gadus S2 V220AD Greases are high performance grease for the lubrication of bearings subjected to the harsh conditions.

They are based on high viscosity index mineral oil and a mixed lithium/calcium soap thickener and contains extreme-pressure, anti-oxidation, anti-wear, anti-corrosion and adhesion additives. It also contains solids to provide resistance to shock loading.

### Applications

Shell Gadus S2 V220AD Greases are recommended for the lubrication of shock loaded heavy duty bearings working in damp hostile conditions. They are well-suited for use in off-highway applications and also for the lubrication of fifth wheels.

### Performance Features

- **Good oxidation and mechanical stability**  
Resists the formation of deposits caused by oxidation at high operating temperatures and maintains consistency, reducing leakage.
- **Good corrosion resistance**  
Provides protection from the elements of corrosion.
- **For shock loaded conditions**  
Resists breakdown, softening and subsequent leakage under shock loads.
- **Good adhesion properties**  
Reduces losses and grease consumption
- **Extreme pressure performance**  
Rig tests confirm EP additives in Shell Gadus S2 V220AD Greases prolong bearing life when subjected to heavy and shock loads.

### Operating Temperature Range

-10°C to +120°C (140°C peak)

### Health & Safety

Gadus S2 V220AD Greases are unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Shell Product Safety Data Sheet.

### Advice

Advice on applications not shown on this leaflet may be obtained from your Shell Representative.

## Typical Physical Characteristics

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

Shell Alvania Grease	S2 V220AD	
NLGI Consistency	1	2
Colour	Black	Black
Soap Type	Lithium/calcium	Lithium/calcium
<b>Base Oil</b> (type) <b>Kinematic Viscosity</b> @ 40°C cSt 100°C cSt (IP 71/ASTM-D445)	Mineral  220 18	Mineral  220 18
<b>Cone Penetration</b> Worked @ 25°C 0.1 mm (IP 50/ASTM-D217)	310-340	265-295
<b>Dropping Point</b> °C (IP 132/ASTM-D566-76)	170	175
<b>4 Ball Weld Load Kg</b> <b>IP 239</b>	315	315