



Previous Name: Shell Alvania Grease RL 2

Shell Gadus S2 V100 2

- *Reliable Protection*
- *Multi-purpose*
- *Lithium*

High Performance Multipurpose Grease

Shell Gadus S2 V100 2 is a general purpose grease based on a new lithium hydroxystearate soap thickener fortified with anti-oxidant, anti-wear and anti-rust additives.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Reliable high temperature performance**
Very good performance up to +130°C, resulting in longer bearing life.
- **Good oxidation and mechanical stability**
Resists the formation of deposits caused by oxidation at high operating temperatures. Shell Gadus S2 V100 greases are extremely stable under vibrations and give NO LEAKAGE even in repeated shock-loaded bearings.
- **Good corrosion resistance characteristics**
Effective protection in hostile environments.
- **Long storage life**
Does not alter in consistency during prolonged storage.

- Rolling element and plain grease lubricated bearings
- Electric motor bearings
- Sealed-for-life bearings
- Water pump bearings
May be used under a wide range of operating conditions offering very significant advantages over conventional lithium greases at high temperature or in the presence of water.
- A medium consistency grease designed, mainly, for general industrial lubrication. Ideal for centralised lubrication systems operating at normal temperatures.

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 S2 V100 2
NLGI Consistency				2
Soap Type				Lithium hydroxystearate
Base Oil (Type)				Mineral
Kinematic Viscosity	@40°C	cSt	IP 71 / ASTM D445	100
Kinematic Viscosity	@100°C	cSt	IP 71 / ASTM D445	11
Cone Penetration, Worked	@25°C	0.1mm	IP 50 / ASTM D217	265-295
Dropping Point		°C	IP 396	180

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 S2 V100 Grease 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 Material 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

- **Re-greasing Intervals**

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

- **Advice**

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

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Previous Name: Shell Alvania Grease RL 3

Shell Gadus S2 V100 3

- *Reliable Protection*
- *Multi-purpose*
- *Lithium*

High Performance Multipurpose Grease

Shell Gadus S2 V100 3 is a general purpose grease based on a new lithium hydroxystearate soap thickener fortified with anti-oxidant, anti-wear and anti-rust additives.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Reliable high temperature performance**
Very good performance up to +130°C, resulting in longer bearing life.
- **Good oxidation and mechanical stability**
Resists the formation of deposits caused by oxidation at high operating temperatures. Shell Gadus S2 V100 greases are extremely stable under vibrations and give NO Leakage even in repeated shock-loaded bearings.
- **Good corrosion resistance characteristics**
Effective protection in hostile environments.
- **Long storage life**
Effective protection in hostile environments.
- **Long storage life**
Does not alter in consistency during prolonged storage.

- Rolling element and plain grease lubricated bearings
- Electric motor bearings
- Sealed-for-life bearings
- Water pump bearings
- May be used under a wide range of operating conditions offering very significant advantages over conventional lithium greases at high temperature or in the presence of water.
- A medium/hard high performance industrial grease, particularly recommended for the lubrication of electrical motor bearings.

Specifications, Approvals & Recommendations

For a full listing of equipment approvals and recommendations,

Specifications, Approvals & Recommendations

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk, or the OEM Approvals website.

Main Applications



Typical physical characteristics

Properties			Method	Shell Gadus S2 V100 3
Nlgl Consistency				3
Soap Type				Lithium hydroxystearate
Base Oil (Type)				Mineral
Kinematic Viscosity	@40°C	cSt	IP 71 / ASTM D445	100
Kinematic Viscosity	@100°C	cSt	IP 71 / ASTM D445	11
Cone Penetration, Worked	@25°C	0.1mm	IP 50 / ASTM D217	220-250
Dropping Point		°C	IP 396	180

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 S2 V100 Grease 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 Material 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

▪ Re-greasing Intervals

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

▪ Advice

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

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Previous Name: Shell Alvania Grease EP(LF) 0

Shell Gadus S2 V220 0

- Reliable Protection
- Multi-purpose
- Lithium

High Performance Multipurpose Extreme Pressure Grease

Shell Gadus S2 V220 greases are high quality multipurpose, extreme-pressure greases based on a blend of high viscosity index mineral oils and a lithium hydroxystreate soap thickener and contain extreme-pressure and other proven additives to enhance their performance in a wide range of applications.

Shell Gadus S2 V220 greases are designed for multipurpose grease lubrication of rolling element and plain bearings as well as hinges and sliding surfaces such as those found in throughout most industrial and transport sectors.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Outstanding load carrying capacity**
Shell Gadus S2 V220 greases contain special extreme-pressure additives which enable them to withstand heavy and shock loads without failure of the lubricant film.
- **Improved mechanical stability**
This is particularly important in vibrating environments where poor mechanical stability can lead to grease softening with subsequent loss of lubrication performance and leakage.
- **Good resistance to water wash-out**
Shell Gadus S2 V220 greases have been formulated to offer resistance to water wash-out.
- **Oxidation stability**
Specially selected base oil components have excellent oxidation resistance. Their consistency will not alter in storage and they withstand high operating temperatures without hardening or forming bearing deposits.

Anti-corrosion protection

Shell Gadus S2 V220 greases have an affinity with metal and have the ability to protect bearing surfaces against corrosion, even when the grease is contaminated with water.

Main Applications



Shell Gadus S2 V220 0 greases are specifically designed for:

- Steel mill lubrication where a softer grease is necessary for specialised dispensing systems.
- Heavy duty plain and rolling element bearings operating under harsh conditions including shock loading in wet environments.

Specifications, Approvals & Recommendations

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk, or the OEM Approvals website.

Typical physical characteristics

Properties			Method	Shell Gadus S2 V220 0
Nlgi Consistency				0
Soap Type				Lithium
Base Oil				Mineral
Kinematic Viscosity	@40°C	cSt	IP 71 / ASTM D445	220
Kinematic Viscosity	@100°C	cSt	IP 71 / ASTM D445	19
Cone Penetration, Worked	@25°C	0.1mm	IP 50 / ASTM D217	355-385
Dropping Point			IP 396	-

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 S2 V220 Grease 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 Material Safety Data Sheet, which can be obtained from <http://www.epc.shell.com/>

- **Hydraulic Brake Rubber Components**

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

- **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.

- **Advice**

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

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Previous Name: Shell Alvania Grease EP(LF) 1

Shell Gadus S2 V220 1

- Reliable Protection
- Multi-purpose Applications
- Lithium

High Performance Multi-purpose Extreme Pressure Grease

Shell Gadus S2 V220 greases are high quality multi-purpose, extreme-pressure greases based on a blend of high viscosity index mineral oils and a lithium hydroxystreate soap thickener and contain extreme-pressure and other proven additives to enhance their performance in a wide range of applications.

Shell Gadus S2 V220 greases are designed for multi-purpose grease lubrication of rolling element and plain bearings as well as hinges and sliding surfaces such as those found in throughout most industrial and transport sectors.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- Outstanding load carrying capacity**
 Shell Gadus S2 V220 greases contain special extreme-pressure additives which enable them to withstand heavy and shock loads without failure of the lubricant film.
- Improved mechanical stability**
 This is particularly important in vibrating environments where poor mechanical stability can lead to grease softening with subsequent loss of lubrication performance and leakage.
- Good resistance to water wash-out**
 Shell Gadus S2 V220 greases have been formulated to offer resistance to water wash-out.
- Oxidation stability**
 Specially selected base oil components have excellent oxidation resistance. Their consistency will not alter in storage and they withstand high operating temperatures without hardening or forming bearing deposits.
- Anti-corrosion protection**
 Shell Gadus S2 V220 greases have an affinity with metal and have the ability to protect bearing surfaces against corrosion, even when the grease is contaminated with water.

Main Applications



Shell Gadus S2 V220 1 grease is designed for:

- Heavy duty bearings served by centralized dispensing equipment.
- Extreme-pressure gear grease for applications at normal ambient temperature.
- Heavy duty plain and rolling element bearings operating under harsh conditions including shock loading in wet environments.
- Low temperature greasing applications.

Specifications, Approvals & Recommendations

- For additional questions and listing of equipment approvals and recommendations, contact your local Shell Technical Helpdesk or the OEM Approvals website.

Typical Physical Characteristics

Properties				Method	Shell Gadus S2 V220 1
NLGI Consistency					1
Soap Type					Lithium
Base Oil					Mineral
Kinematic Viscosity	@40°C	cSt		IP 71 / ASTM D445	220
Kinematic Viscosity	@100°C	cSt		IP 71 / ASTM D445	19
Cone Penetration, Worked	@25°C	0.1mm		IP 50 / ASTM D217	310-340
Dropping Point		°C		IP 396	180

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

Health, Safety & Environment

- **Health and Safety**

Shell Gadus S2 V220 Grease 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 Material Safety Data Sheet, which can be obtained from <http://www.epc.Shell.com/>

- **Hydraulic Brake Rubber Components**

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

- **Protect the Environment**

Take used oil to an authorized 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.

- **Advice**

Product recommendations on applications not listed here may be obtained from your Shell representative.

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Previous Names: Shell Alvania Grease EP(LF) 2, Shell Retinax EP 2

Shell Gadus S2 V220 2

- Reliable Protection
- Multi-purpose Applications
- Lithium

High Performance Multipurpose Extreme Pressure Grease

Shell Gadus S2 V220 greases are high quality multipurpose, extreme-pressure greases based on a blend of high viscosity index mineral oils and a lithium hydroxystreate soap thickener and contain extreme-pressure and other proven additives to enhance their performance in a wide range of applications.

Shell Gadus S2 V220 greases are designed for multipurpose grease lubrication of rolling element and plain bearings as well as hinges and sliding surfaces such as those found in throughout most industrial and transport sectors.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Outstanding Load Carrying Capacity**
Shell Gadus S2 V220 greases contain special extreme-pressure additives which enable them to withstand heavy and shock loads without failure of the lubricant film.
- **Improved Mechanical Stability**
This is particularly important in vibrating environments where poor mechanical stability can lead to grease softening with subsequent loss of lubrication performance and leakage.
- **Good Resistance to Water Wash-out**
Shell Gadus S2 V220 greases have been formulated to offer resistance to water wash-out.
- **Oxidation Stability**
Specially selected base oil components have excellent oxidation resistance. Their consistency will not alter in storage and they withstand high operating temperatures without hardening or forming bearing deposits.

- **Good Corrosion Resistance Characteristics**
Shell Gadus S2 V200 greases reliably protect bearing surfaces against corrosion, even when a high amount of water is present.

Main Applications



Shell Gadus S2 V220 2 greases are designed for:

- Heavy duty bearings and general industrial lubrication.
- Heavy duty plain and rolling element bearings operating under harsh conditions including shock loading in wet environments.

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 S2 V220 2
NLGI Consistency				2
Soap Type				Lithium
Base Oil				Mineral
Kinematic Viscosity	@40°C	cSt	IP 71 / ASTM D445	220
Kinematic Viscosity	@100°C	cSt	IP 71 / ASTM D445	19
Cone Penetration, Worked	@25°C	0.1mm	IP 50 / ASTM D217	265-295
Dropping Point			IP 396	180

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 S2 V220 Grease 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 Material Safety Data Sheet, which can be obtained from <http://www.epc.shell.com/>

- **Hydraulic Brake Rubber Components**

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

- **Protect the Environment**

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

Additional Information

- **Operating Temperature**

Shell Gadus S2 V220 2 is recommended for the operating temperature range -20°C to +130°C.

- **Re-greasing Intervals**

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

- **Advice**

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

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Previous Names: Shell Alvania Grease WR 2, Shell Alvania HD 2, Shell Retinax HD 2

Shell Gadus S2 V220AC 2

- Reliable Protection
- Water Resistant
- Red Lithium Calcium

High Performance Multi-purpose Extreme Pressure Grease

Shell Gadus S2 V220AC greases are high quality multi-purpose greases based on high viscosity index mineral oil and a mixed lithium/calcium soap thickener. They contain extreme-pressure, anti-wear, anti-oxidation and anti-corrosion additives to enhance their performance in a wide range of applications.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Excellent mechanical stability even under vibrating conditions.**
Consistency retained over long periods, even in conditions of severe vibration.
- **Good corrosion resistance.**
Provides protection from the elements of corrosion.
- **Extended life at moderate temperatures.**
Allows longer periods between maintenance schedules reducing down-time and grease consumption. Demonstrated to work in the field with regreasing intervals above 30,000 kms even for demanding applications such as transmission joints.
- **Good oil separation.**
Effective lubrication and reliable performance.

Specifications, Approvals & Recommendations

- ASTM D4950-08 LB
For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk, or the OEM Approvals website.

Typical Physical Characteristics

Properties			Method	Shell Gadus S2 V220AC 2
NLGI Consistency				2
Colour				Red
Soap Type				Lithium/Calcium
Base Oil				Mineral
Kinematic Viscosity	@40°C	cSt	IP 71 / ASTM D445	220
Kinematic Viscosity	@100°C	cSt	IP 71 / ASTM D445	18
Cone Penetration, Worked	@25°C	0.1mm	IP 50 / ASTM D217	265-295
Dropping Point			IP 396	175

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

Main Applications



- Heavy-duty plain and rolling element bearings operating in the following environments:
 - Vibrating conditions
 - Heavy load
 - High temperature
 - Shock load
 - Presence of water

Multipurpose convenience, especially in the transport sector where product can be used for both wheelbearings and chassis lubrication of passenger cars, light trucks and heavy duty trucks. These greases are also suitable for construction equipment exposed to intense water washout.

Health, Safety & Environment

• Health and Safety

Shell Gadus S2 V220AC Grease 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 Material 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 Temperature Range

Shell Gadus S2 V220AC greases are recommended for the grease lubrication of heavy duty bearings operating up to their maximum rated speed over the temperature range -20°C to 130°C (140°C peak)

• Advice

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

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Previous Name: Shell Retinax HD 3

Shell Gadus S2 V220AC 3

- Reliable Protection
- Water Resistant
- Red Lithium Calcium

High Performance Multi-purpose Extreme Pressure Grease

Shell Gadus S2 V220AC greases are high quality multi-purpose greases based on high viscosity index mineral oil and a mixed lithium/calcium soap thickener. They contain extreme-pressure, anti-wear, anti-oxidation and anti-corrosion additives to enhance their performance in a wide range of applications.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Excellent mechanical stability even under vibrating conditions.**
Consistency retained over long periods, even in conditions of severe vibration.
- **Good corrosion resistance.**
Provides protection from the elements of corrosion.
- **Extended life at moderate temperatures.**
Allows longer periods between maintenance schedules reducing down-time and grease consumption. Demonstrated to work in the field with regreasing intervals above 30,000 kms even for demanding applications such as transmission joints.
- **Good oil separation.**
Effective lubrication and reliable performance.

Specifications, Approvals & Recommendations

- ASTM D4950-08 LB
For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

Main Applications



- Heavy-duty plain and rolling element bearings operating in the following environments:
 - Vibrating conditions
 - Heavy load
 - High temperature
 - Shock load
- Presence of water
Multipurpose convenience, especially in the transport sector where product can be used for both wheelbearings and chassis lubrication of passenger cars, light trucks and heavy duty trucks. These greases are also suitable for construction equipment exposed to intense water washout.

Typical Physical Characteristics

Properties			Method	Shell Gadus S2 V220AC 3
NLGI Consistency				3
Colour				Red
Soap Type				Lithium/Calcium
Base Oil				Mineral
Kinematic Viscosity	@40°C	cSt	IP 71 / ASTM D445	220
Kinematic Viscosity	@100°C	cSt	IP 71 / ASTM D445	18
Cone Penetration, Worked	@25°C	0.1mm	IP 50 / ASTM D217	220-250
Dropping Point		°C	IP 396	175

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 S2 V220AC Grease 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 Material 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 Temperature Range**

Shell Gadus S2 V220AC greases are recommended for the grease lubrication of heavy duty bearings operating up to their maximum rated speed over the temperature range -20°C to 130°C (140°C peak)

- **Advice**

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

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Previous Names: Shell Alvania Grease HDX, Shell Retinax HDX

Shell Gadus S2 V220AD 2

- Heavy Duty Protection
- Water Resistant
- Lithium Calcium

High Performance Multi-purpose Grease with Solids

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

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **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.

Main 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.

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 S2 V220AD 2	
NLGI Consistency				2	
Colour				Black	
Soap Type				Lithium/Calcium	
Base Oil				Mineral	
Kinematic Viscosity	@40°C	cSt	IP 71 / ASTM D445	220	
Kinematic Viscosity	@100°C	cSt	IP 71 / ASTM D445	18	
Cone Penetration, Worked	@25°C	0.1mm	IP 50 / ASTM D217	265-295	
Dropping Point			°C	IP 396	175
4 Ball Weld Load			Kg	IP 239	315

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 S2 V220AD Grease 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 Material 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 Temperature Range**

Operating Temperature Range -25°C to +120°C, peak 130°C

- **Advice**

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

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Previous Names: Shell Alvania Grease EP(LF) 2, Shell Retinax EP 2

Shell Gadus S2 V220 2

- *Reliable Protection*
- *Multi-purpose Applications*
- *Lithium*

High Performance Multipurpose Extreme Pressure Grease

Shell Gadus S2 V220 greases are high quality multipurpose, extreme-pressure greases based on a blend of high viscosity index mineral oils and a lithium hydroxystreate soap thickener and contain extreme-pressure and other proven additives to enhance their performance in a wide range of applications.

Shell Gadus S2 V220 greases are designed for multipurpose grease lubrication of rolling element and plain bearings as well as hinges and sliding surfaces such as those found in throughout most industrial and transport sectors.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Outstanding Load Carrying Capacity**
Shell Gadus S2 V220 greases contain special extreme-pressure additives which enable them to withstand heavy and shock loads without failure of the lubricant film.
- **Improved Mechanical Stability**
This is particularly important in vibrating environments where poor mechanical stability can lead to grease softening with subsequent loss of lubrication performance and leakage.
- **Good Resistance to Water Wash-out**
Shell Gadus S2 V220 greases have been formulated to offer resistance to water wash-out.
- **Oxidation Stability**
Specially selected base oil components have excellent oxidation resistance. Their consistency will not alter in storage and they withstand high operating temperatures without hardening or forming bearing deposits.
- **Good Corrosion Resistance Characteristics**
Shell Gadus S2 V200 greases reliably protect bearing surfaces against corrosion, even when a high amount of water is present.

Main Applications



Shell Gadus S2 V220 2 greases are designed for:

- Heavy duty bearings and general industrial lubrication.
- Heavy duty plain and rolling element bearings operating under harsh conditions including shock loading in wet environments.

Specifications, Approvals & Recommendations

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk, or the OEM Approvals website.

Typical Physical Characteristics

Properties			Method	Shell Gadus S2 V220 2
NLGI Consistency				2
Soap Type				Lithium
Base Oil				Mineral
Kinematic Viscosity	@40°C	cSt	IP 71 / ASTM D445	220
Kinematic Viscosity	@100°C	cSt	IP 71 / ASTM D445	19
Cone Penetration, Worked	@25°C	0.1mm	IP 50 / ASTM D217	265-295
Dropping Point		°C	IP 396	180

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 S2 V220 Grease 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 Material Safety Data Sheet, which can be obtained from <http://www.epc.shell.com/>

- **Hydraulic Brake Rubber Components**

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

- **Protect the Environment**

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

Additional Information

- **Operating Temperature**

Shell Gadus S2 V220 2 is recommended for the operating temperature range -20°C to +130°C.

- **Re-greasing Intervals**

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

- **Advice**

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

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Technical Data Sheet

Previous Names: Shell Albida Grease HDX 2 , Shell Retinax CMX 2

Shell Gadus S3 V460D 2

- Heavy Duty Protection
- High Temperature
- Lithium Complex

Premium multi-purpose heavy duty grease with solids

Shell Gadus S3 V460D greases are high performance high temperature greases for slow moving heavily loaded large bearings subject to shock loads. They are based on high viscosity index mineral oil and a lithium complex soap thickener. Apart from containing the latest additives to ensure excellent high temperature, anti corrosion & anti oxidation performance, They also contain Mos2 to ensure the grease can handle shock loads.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **High base oil viscosity to provide excellent load carrying performance**
Meets the recommended base oil viscosity recommended by leading Oems.
- **Excellent mechanical stability even under vibrating conditions**
Consistency retained over long periods, even in conditions of severe vibration.
- **Enhanced extreme-pressure properties & resistant to shock loads**
Excellent load-carrying performance enhanced by the presence of Mos2.
- **Excellent water resistance**
Ensures lasting protection even in the presence of large amounts of water.
- **Effective corrosion protection**
Ensures components/bearings do not fail due to corrosion.
- **High dropping point**
Resistant to high temperatures.

Specifications, Approvals & Recommendations

Shell Gadus S3 V460D is listed by several leading Oems:

- Komatsu Mining (Germany)
 - Terex
 - BE (certified)
 - Dieffenbacher
 - Hitachi
 - Konecranes
 - CMI
 - Flat Products Equipment
 - Pfeiffer
 - Voith Paper Environmental
 - Meets the requirements of the 3% Mos2 grease Caterpillar specification
 - Has an approval from Rothe Erde
- For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk, or the OEM Approvals website.

Main Applications



Shell Gadus S3 V460D greases are used for the grease lubrication of heavy-duty, slow moving bearings subject to shock loads found in the following industries:

- mining
- steel

Typical physical characteristics

Properties			Method	Shell Gadus S3 V460D 2
Nlgi Consistency				2
colour				Black
Soap Type				Lithium complex
Base Oil Type				Mineral
Kinematic Viscosity	@40°C	cSt	ASTM D445	460
Kinematic Viscosity	@100°C	cSt	ASTM D445	31
Cone Penetration, Worked	@25°C	0.1mm	ASTM D217	265-295
Dropping Point			°C	IP 396
				>240

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 S3 V460D grease 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 Material 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

▪ Advice

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

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Technical Data Sheet

Previous Name: Shell Albida Grease EMS 2

Shell Gadus S5 V100 2

- Long Life
- Improved Efficiency
- Lithium Complex

Advanced Multipurpose Grease

Shell Gadus S5 V100 is a lithium complex grease based on synthetic base oils, containing antioxidants, EP-, wear- and rust preventing additives. The product contains a special friction modifier which is suitable for high speed bearings, taper roller bearings and cylindrical bearings, type NJ, NUP plus applications with an angle ring.

DESIGNED TO MEET CHALLENGES

Main Applications



Shell Gadus S5 V100 is developed for lubrication of roller bearings operating at moderate speeds as well as bearings submitted to severe cold. The grease has very low starting and running torques at temperatures down to -50°C and therefore suitable for all year lubrication of for example outdoor fans and electrical motors. The grease has a very good mechanical and thermal stability and can be used in electrical motors, fans and pumps at bearing temperatures up to 150°C where there is a demand for long re-lubrication intervals.

Specifications, Approvals & Recommendations

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk, or the OEM Approvals website.

Typical Physical Characteristics

Properties	Method	Shell Gadus S5 V100 2
NLGI Consistency		2
Penetration, worked 60 strokes (0.1 mm)	IP 50 / ASTM D217	265-295
Dropping Point	°C IP 396	260
Base Oil Viscosity	@40°C cSt IP 71 / ASTM D445	100
Base Oil Viscosity	@100°C cSt IP 71 / ASTM D445	14
Rust Preventing Properties : SKF Emcor distilled water		Pass
Rust Preventing Properties : SKF Emcor WWO distilled water		Pass
Lubricating Ability SKF R2F A		Pass
Lubricating Ability SKF R2F B	@150°C	Pass
Mechanical Stability, Shell Roll (50 hrs)	@80°C	+50
Temperature Range (temporarily)	°C	-50/+150 (200)

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 V100 Grease 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.

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Protect the Environment

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Additional Information

Advice

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