

SHELL GADUS® IS A COMPREHENSIVE FAMILY OF GREASES DESIGNED TO MEET YOUR NEEDS.

Shell Gadus® is a comprehensive family of greases designed to meet your needs. The Shell Gadus range includes multipurpose greases that can help to simplify your product inventory, as well as specialty greases, including advanced polyurea synthetic products designed for the most severe extreme-temperature and long-life applications, and a range of open-gear lubricants.

Whether you need greases for steel production, mining, construction, power generation, general or automotive manufacturing, other applications or your vehicles, Shell has a grease designed to meet your challenges.

The Shell Gadus range has been developed to deliver optimum value through:

- enhanced wear protection
- long grease life
- system efficiency

WEAR PROTECTION

Equipment wear can reduce system efficiency and service life. Protecting components from wear is fundamental for helping prolong equipment life and helping prevent production losses through breakdowns.

The Shell Gadus range of greases offers protection across a wide range of applications. The range includes extreme-temperature "T" polyurea synthetic greases, which can help to protect bearings under extreme temperatures, heavy loads and contaminated conditions.

GREASE LIFE

The longer your grease lasts, the longer your components last and the less lubrication maintenance your equipment needs. Shell Gadus® greases are designed to help your equipment continue to operate without interruption. The comprehensive product range enables you to select a grease with a life that meets your operational needs.

Shell Gadus® extra-long-life synthetic technologies may help double grease life for some applications. There are other cost-effective, reliable, multipurpose Shell Gadus® greases for standard oil life applications.

SYSTEM EFFICIENCY

To help your equipment perform to its design standards, you need a grease that stays in place and provides effective protection and lubrication where you need it.

Shell Gadus® greases can help to maintain or even improve the efficiency of your systems. From greases that offer reliable performance for standard applications to specialist low-noise, high-temperature and heavy-load greases, there is a Shell Gadus product that can help to optimize your system's efficiency and costs of operation.

A WIDE RANGE OF THICKENER TECHNOLOGIES

Different applications and conditions require different thickeners. The Shell Gadus range uses a wide range of thickener technologies, each with relative benefits.

Thickener guide	Thickener	Temperature	Water resistance	Shear and vibration stability
T	Polyurea	////	///	////
V	Lithium complex	////	///	////
V	Lithium calcium	//	////	///
V	Lithium	//	//	///
A	Calcium	✓	///	///
U	PTFE	////	////	////
U	Clay	////	//	///

T = Extreme-temperature performance using Shell polyurea thickeners
V = Versatile, multipurpose application using lithium and lithium complex thickeners
A = Thickeners for wet (aqueous) conditions
U = Unusual non-melting thickeners or other applications

SHELL'S ADVANCED POLYUREA "T" THICKENER

Shell's research teams have developed superior greases using advanced polyurea thickener technology. These products are designed to outperform conventional greases in extreme-temperature applications, such as electric motors and automotive constant-velocity joints. In one example, a global steel manufacturer reported that it reduced bearing failure rates by 75% and grease consumption by 30% through switching to Shell Gadus® S3 T100 polyurea technology grease.

FIT-FOR-PURPOSE PROTECTION

Using the right grease for your needs can deliver significant savings. For example, a construction company reports tremendous annual savings¹ through changing to Shell Gadus® S3 V460D 2 grease, which provided the protection needed for performing heavy-duty work. The grease is extending excavator component life by 40%, reducing downtime and maintenance costs, and increasing equipment availability.

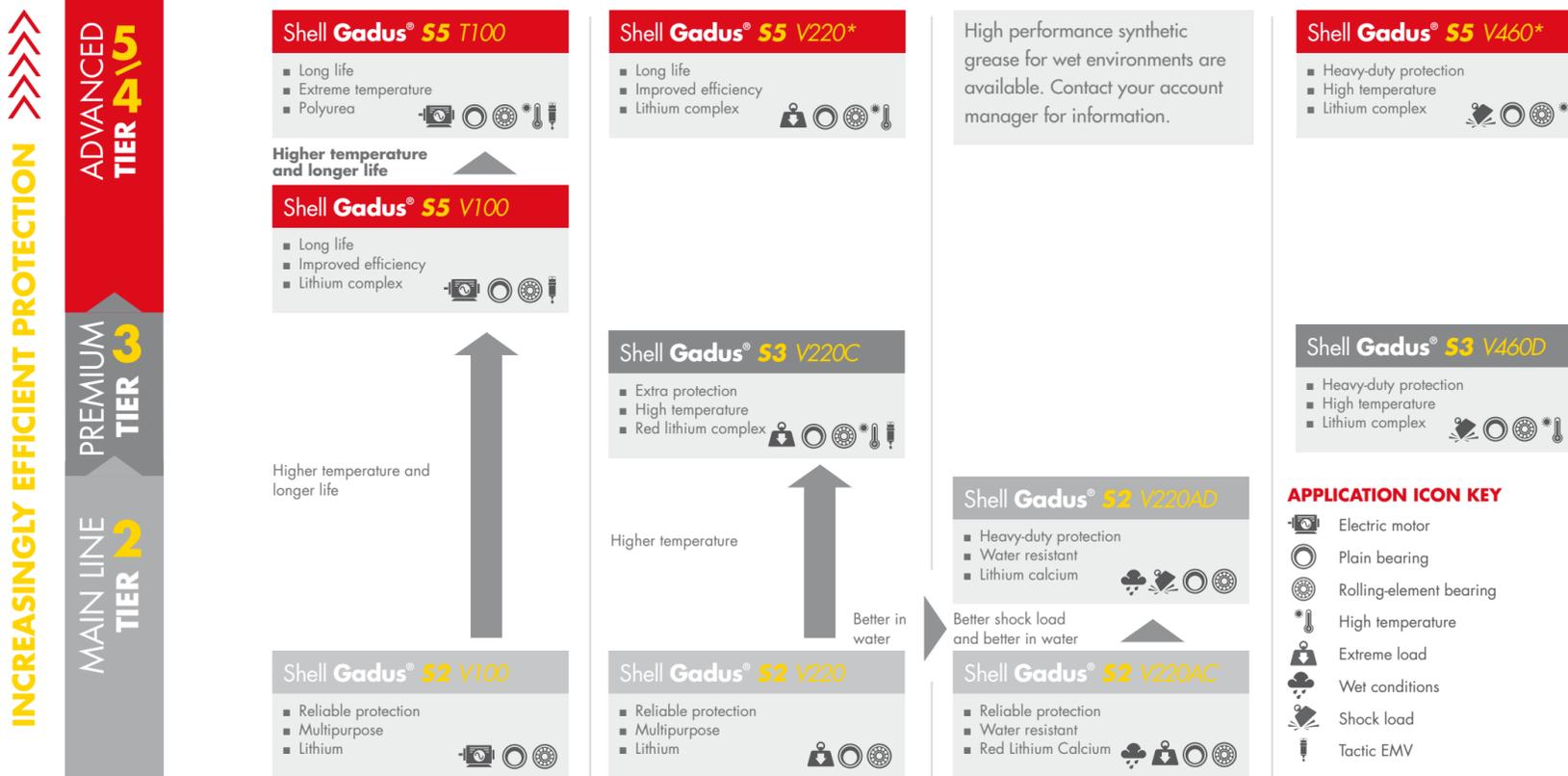
A RANGE OF GREASES TO MEET YOUR NEEDS

SPECIAL APPLICATIONS AND PRODUCTS

This table highlights several Shell Gadus greases to illustrate the range. Whatever your application, there is a Shell Gadus grease designed to meet your needs, including Shell Tactic EMV automatic, single-point lubricators.

Contact your Shell representative for details.

MULTIPURPOSE	EXTREME-PRESSURE MULTIPURPOSE	HEAVY-DUTY MULTIPURPOSE
Bearings carrying low loads at higher speeds	Bearings carrying medium loads at medium speeds	Bearings carrying heavy loads at lower speeds and shock loads
Auxiliary industrial equipment, including electrical motors and fans, and lightly loaded roller-element or plain bearings	Roller-element or plain bearings for industry and transport	Large roller-element or plain bearings for industry and transport
GREASE BASE OIL VISCOSITY 100	DRY ENVIRONMENTS 220	WET ENVIRONMENTS 460



*Product will continue to be sold under original name until future notice.

PERFORMANCE THAT YOU CAN RELY ON

The way a grease is made has a huge impact on its performance. Shell manufactures grease in a highly controlled and systematic way, from precisely specifying the ingredients to detailing how it is packaged, shipped and delivered. Under this quality process, every batch you receive, no matter where in the world it is made, gives you the same high performance levels.

NEED ADVICE?

Shell has on-the-ground grease specialists, supported by a global network of technicians, who can help to design a complete lubricant solution for your needs or work with you to solve a specific lubrication problem.



LEADING TECHNOLOGY

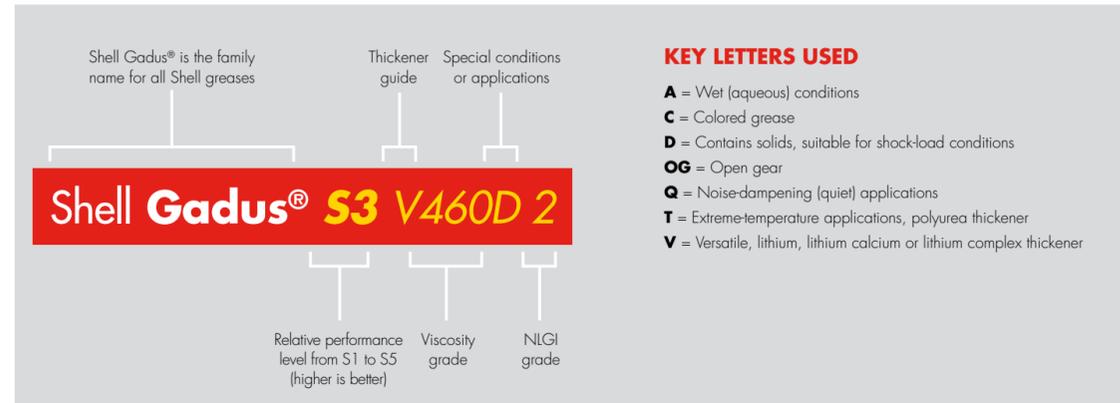
Shell's international research and development team works in close co-operation with customers and equipment makers to create advanced-technology greases. These greases are designed to outperform conventional greases by combining a wide range of thickener technologies, which keep the grease in place under different conditions, with innovative oils that provide efficient lubrication and protection.

HELPFUL PRODUCT NAMES

There are at least four properties that you should look for when selecting a grease:

- thickener type
- oil viscosity
- operating conditions and application
- NLGI grade (consistency)

Shell Gadus® greases have names based on these properties that aim to help you select the right products for your needs.



FULL PRODUCT AND SERVICE PORTFOLIO

Shell Lubricants is the number-one finished lubricants supplier² and has a 60-year history of innovation. It constantly invests to develop better lubrication solutions, including advanced synthetic technologies such as:

- Shell Tellus® S4 ME synthetic hydraulic oil – for long life and energy saving
- Shell Corena® S4 R air compressor oil – for up to 12,000 hours of protection

In addition, Shell provides the Shell LubeAnalyst™ oil condition monitoring service, which as part of a preventative maintenance program can help maximize your equipment and lubricant performance.

Whatever your needs or application, Shell can provide a full range of oils and greases, including synthetic, high-performance products and additional services.



Product	Benefits	Technology (Thickener, base oil and key properties)	ISO viscosity grade	Specifications and approvals (Full details of specifications/approvals for all products can be obtained from your Shell representative; approvals and specifications met will vary by viscosity grade.)
Shell Gadus® "T" range				
Shell Gadus® S5 T100	<ul style="list-style-type: none"> ■ Long life ■ Extreme temperature ■ Polyurea 	Polyurea, synthetic	100	Listings: Wood Group
Shell Gadus® "V" range				
Shell Gadus® S5 V100	<ul style="list-style-type: none"> ■ Long life ■ Improved efficiency ■ Lithium complex 	Lithium complex, synthetic	100	Listings: ABB, CH Schäfer Getriebe, FLSmidth and Hegenscheidt-MFD
Shell Gadus® S3 V220C	<ul style="list-style-type: none"> ■ Extra protection ■ High temperature ■ Red lithium complex 	Lithium complex, mineral, EP	220	Specification: Meets ASTM D4950-08 LB-GC. Approved: AICHELIN, MTU, Sør-Norge Aluminium and ZF Friedrichshafen Listings: Listed by 24 major companies from a wide variety of industries
Shell Gadus® S3 V460D	<ul style="list-style-type: none"> ■ Heavy-duty protection ■ High temperature ■ Lithium complex 	Lithium complex, mineral, EP, solid EP additive (MoS ₂)	460	Approved: Bucyrus International and Rothe Erde Listings: Bucyrus International, Dieffenbacher, Konecranes and Komatsu Mining
Shell Gadus® S2 V100	<ul style="list-style-type: none"> ■ Reliable protection ■ Multipurpose ■ Lithium 	Lithium, mineral	100	Approved: AICHELIN, Komatsu Mining, Joy Stamler, Lenze and SNR Listings: Listed by over 60 major companies from a wide variety of industries
Shell Gadus® S2 V220	<ul style="list-style-type: none"> ■ Reliable protection ■ Multipurpose ■ Lithium 	Lithium, mineral, EP	220	Specification: Meets ASTM D4950-08 LB Approved: Cincinnati Machine, Joy Stamler, MTU, MAN, Ringspann, Sør-Norge Aluminium, Wärtsilä and ZF Friedrichshafen Listings: Over 100 listings from major companies in the metals, mining, construction, transport, power and general engineering sectors
Shell Gadus® S2 V220AD	<ul style="list-style-type: none"> ■ Heavy-duty protection ■ Water resistant ■ Lithium calcium 	Lithium calcium, mineral, EP, solid EP additive (MoS ₂)	220	Approved: Xiamen XGMA Machinery Listings: BEML, Bucyrus International, Buehler, Danieli and Stork Food and Dairy Systems
Shell Gadus® specialty ranges Contact your Shell representative for details				
Shell Gadus® "OG" lubricants for mobile and stationary open-gear applications requiring spray or fluid bath lubrication				
Shell GadusRail greases meet European and American railway specifications, especially for railway applications, including axle journal bearings, traction motor bearings and curve rails				
Shell Tactic EMV automatic single-point lubricators – available with a selected range of high-performance Gadus greases				
Related products Contact your Shell representative for details				

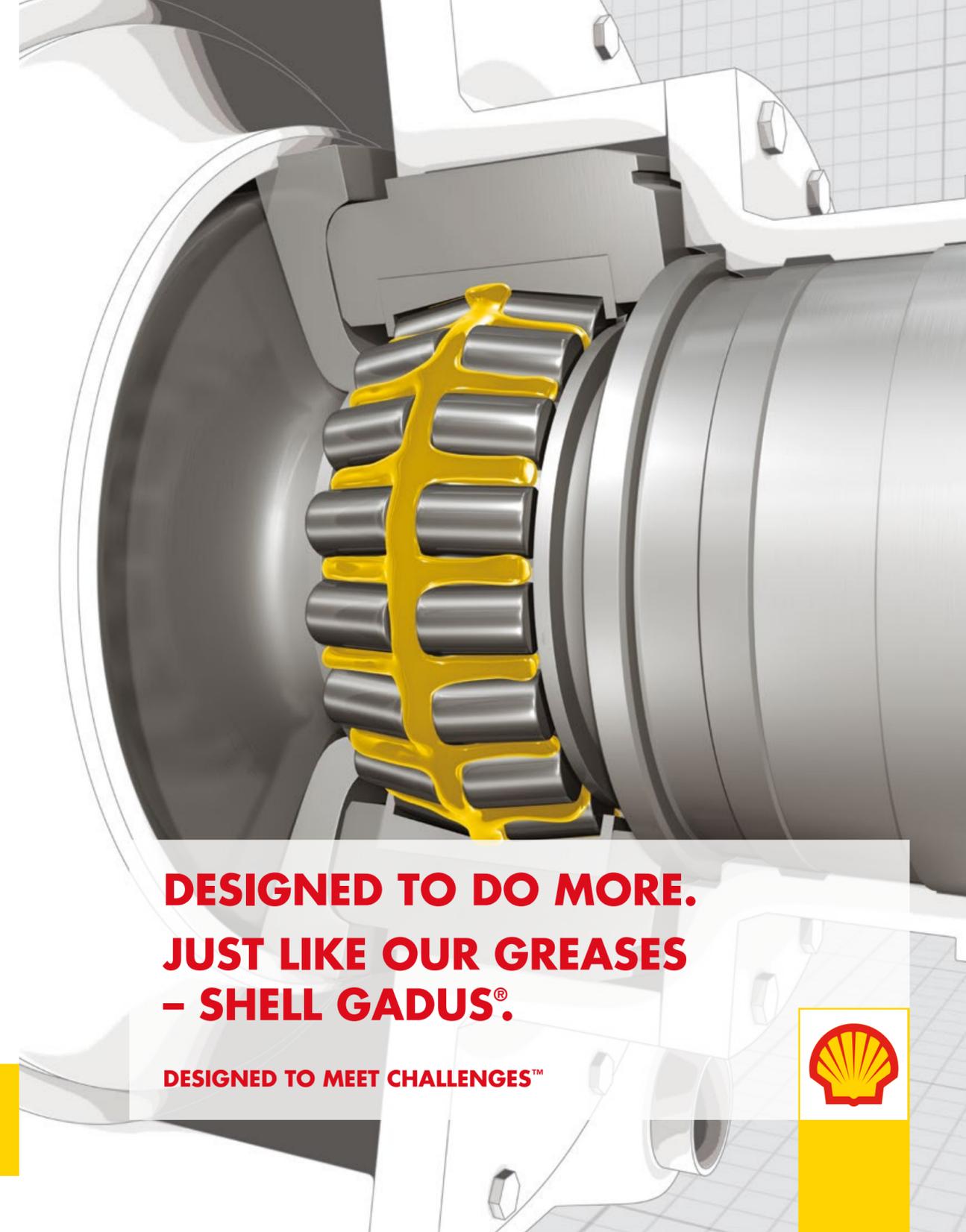
¹Savings reported by one customer. Actual savings may vary, depending on the application, the current oil used, the maintenance procedures and the condition of the equipment.

²Source: Kline & Company, "Competitive Intelligence for the Global Lubricants Industry, 2010–2018."

For more information, please contact your Shell Lubricants representative

shell.com/lubricants

The term "Shell Lubricants" refers to the various Shell Group companies engaged in the lubricants business.
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**DESIGNED TO DO MORE.
JUST LIKE OUR GREASES
– SHELL GADUS®.**

DESIGNED TO MEET CHALLENGES™

