

Mobil Shell Grease Equivalent Chart

mobil shell grease equivalent chart is an essential resource for professionals and enthusiasts who seek to find compatible greases that match the performance and specifications of Mobil and Shell lubricants. Whether you're conducting maintenance, switching suppliers, or optimizing your equipment's lubrication system, understanding the equivalents can help ensure smooth operation, extend equipment lifespan, and maintain cost efficiency. This comprehensive guide aims to clarify the relationships between Mobil and Shell greases, providing a detailed equivalence chart and valuable insights into their applications, properties, and compatibility considerations.

Understanding the Importance of Grease Equivalence

Choosing the right grease for industrial machinery, automotive systems, or heavy equipment is critical. Using incompatible or substandard lubricants can lead to increased wear, overheating, and costly downtime. When switching brands or sourcing alternatives, it's vital to identify equivalents that meet the same specifications as the original product. The mobil shell grease equivalent chart serves as a handy reference for comparing products based on key parameters such as base oil type, consistency, temperature range, and additive package. Proper understanding ensures that the substitute provides similar protection under operational conditions.

Key Factors to Consider When Comparing Greases

Before delving into specific equivalents, it's helpful to understand the main factors that influence grease compatibility and performance:

1. Base Oil Type

- Mineral Oil - Synthetic Oil (PAO, ester) - Lithium, Calcium, Aluminum Complex, etc.

2. Consistency and NLGI Grade

- Ranges from 0 (semi-fluid) to 6 (very stiff) - Commonly used grades: NLGI 2 (general purpose), NLGI 0-1 (light-duty), NLGI 3-4 (heavy-duty)

3. Operating Temperature Range

- Low-temperature performance - High-temperature stability

4. Additive Package

- Extreme pressure (EP) additives - Anti-wear agents - Antioxidants and corrosion inhibitors

5. Compatibility

- Compatibility with existing lubricants - Material compatibility (seals, metals)

Mobil and Shell Greases: An Overview

Both Mobil and Shell are leading global lubricants manufacturers, offering a wide range of greases tailored to various industrial and automotive applications. Their products are formulated with specific base oils and additives to meet industry standards such as

NLGI, ASTM, and OEM specifications. Mobil Greases: - Mobilith SHC series - Mobilux series - Mobilgrease series Shell Greases: - Shell Gadus series - Shell Gadus S2 V220 series - Shell Gadus S3 series Understanding these product lines helps in drawing parallels and finding equivalents.

Mobil Shell Grease Equivalent Chart

Below is a detailed equivalence chart highlighting common Mobil greases and their Shell counterparts, based on application, NLGI grade, base oil type, and key properties.

1. General-purpose Lithium Complex Greases (NLGI 2)

| Mobil Product | Shell Equivalent | Description | Applications | |||| | Mobilith SHC 100 | Shell Gadus S2 V220 2 | Lithium-complex, synthetic base, high-temp stability | Bearings, chassis, industrial equipment| | Mobilux EP 2 | Shell Gadus S2 V220 2 | Mineral oil, EP additive, versatile | General industrial, automotive |

2. Heavy-duty Industrial Greases

| Mobil Product | Shell Equivalent | Description | Applications | |||| | Mobilith SHC 220 | Shell Gadus S3 V220 2 | Synthetic lithium complex, high load capacity | Heavy machinery, crushers, conveyors | | Mobilgrease XHP 222 | Shell Gadus S3 V220 2 | Lithium complex, excellent water resistance | Construction equipment, hoists |

3. High-Temperature Greases

| Mobil Product | Shell Equivalent | Description | Applications | |||| | Mobilith SHC 100 HT | Shell Gadus S2 V220 2 HT | Synthetic, high-temperature stability | Electric motors, high-heat environments | | Mobilith SHC 220 HT | Shell Gadus S2 V220 2 HT | High-temp, high-performance synthetic grease | Heavy-duty industrial applications |

4. Food-Grade and Specialty Greases

| Mobil Product | Shell Equivalent | Description | Applications | |||| | Mobilith SHC 100 Food Grade | Shell Ondina S2 V220 2 Food | NSF H1, synthetic, suitable for food processing environments| Food processing machinery | | Mobilith SHC 007 Food Grade | Shell Gadus S2 V220 0 Food | NLGI 0, synthetic, versatile for light-duty food-grade needs| Food packaging, conveyor belts |

How to Use the Equivalence Chart Effectively

To maximize the benefits of the mobil shell grease equivalent chart, consider the following tips:

1. Match the NLGI Grade

Ensure the replacement grease has the same consistency to maintain proper lubrication film thickness.

2. Cross-Check the Operating Conditions

Verify that the substitute grease can withstand the temperature range and load conditions of your application.

3. Confirm Compatibility with Existing Lubricants

If switching from Mobil to Shell, or vice versa, check compatibility to prevent issues like gelling or separation.

4. Consult Manufacturer Data Sheets

Always review technical datasheets for detailed specifications and OEM approvals.

5. Conduct Field Tests

Before full implementation, perform trial runs to observe performance and detect any issues.

Additional Tips for Selecting Equivalent Greases

- Identify the core specifications of your current grease, such as base oil type, thickener, and additive package. - Prioritize application-specific properties like water resistance, corrosion protection, and extreme pressure performance. - Consider synthetic vs. mineral oils based on operational demands and cost factors. - Engage with suppliers or technical support for guidance and validation when selecting equivalents.

Conclusion

The Mobil Shell grease equivalent chart is a valuable tool for ensuring proper lubrication while maintaining compatibility across brands. By understanding the key parameters—such as NLGI grade, base oil type, and application requirements—you can confidently select suitable alternatives that meet or exceed the performance of original products. Regularly consulting technical datasheets, performing compatibility tests, and staying informed about product updates will help optimize your lubrication strategy, reduce costs, and safeguard your equipment. Maintaining the right lubrication not only enhances machinery efficiency but also extends service life, minimizes downtime, and ensures safety. Whether you're a maintenance engineer, procurement specialist, or equipment operator, leveraging this equivalence chart empowers you to make informed decisions for your lubrication needs. Remember: Always verify technical specifications and OEM recommendations before making a switch or selecting an equivalent grease to ensure optimal performance and compliance with operational standards.

Mobil Shell Grease Equivalent Chart: An Expert Guide to Choosing the Right Lubricant In the world of industrial maintenance, automotive repair, and machinery operation, selecting the correct grease is paramount for ensuring optimal performance, longevity, and reliability. Among the most trusted names in lubricants are Mobil and Shell, both offering a broad spectrum of grease products tailored for various applications. However, understanding the equivalency between these brands can be complex, especially when considering cross-referencing specifications, performance characteristics, and compatibility. This is where the Mobil Shell Grease Equivalent Chart becomes an invaluable resource, serving as a comprehensive guide for technicians, engineers, and maintenance professionals. In this detailed article, we will explore the concept of grease equivalents, dissect the importance of the Mobil Shell equivalency chart, review key products from both brands, and provide practical insights into selecting the right lubricant for your specific needs.

Understanding Grease Equivalents: Why They Matter

Before delving into the specifics of the Mobil Shell grease equivalent chart, it's crucial to understand what "equivalent" means in the context of lubricants. Grease equivalency refers to products from different manufacturers that possess similar formulations, performance characteristics, and suitability for comparable applications. Why are grease equivalents important? - Operational Flexibility: In situations where a specific brand or product is unavailable, knowing equivalents allows for seamless substitution without compromising machinery performance. - Cost Optimization: Sometimes, alternative products with similar specifications may be more cost-effective. - Inventory Management: Maintaining a stock of equivalent greases simplifies procurement and reduces downtime. Key parameters defining grease equivalency include: - Base Oil Type: Mineral, synthetic, or semi-synthetic. - Thickener Type: Lithium, calcium, aluminum, polyurea, etc. - NLGI Grade: Consistency level (e.g., 2, 3). - Performance Standards: Timken OK load, wear scar, dropping point, pumpability, etc. - Additive Technologies: Anti-wear, extreme pressure (EP), corrosion inhibitors, etc. An effective equivalency chart aligns these parameters across products to ensure compatibility and performance.

The Mobil Shell Grease Equivalent Chart: An Overview

The Mobil Shell Grease Equivalent Chart is a curated reference that cross-maps popular grease products from Mobil and Shell, highlighting their similarities and differences. This chart is particularly useful for maintenance managers and procurement specialists who oversee diverse equipment fleets and need to standardize lubricants or switch brands. What does the chart typically include? - Product Names and Codes: Clear identification of each grease product. - Technical Specifications: NLGI grade, thickener type, base oil type. - Performance Ratings: Timken OK load, Four-Ball Wear, dropping point, water washout resistance. - Application Recommendations: Suitable equipment types and operating conditions. - Cross-Reference Table: Side-by-side comparison of equivalent products. Sample excerpt from a typical Mobil Shell grease equivalent chart:

Mobil Product	Shell Product	Thickener	NLGI Grade	Base Oil Type	Key Features	Typical Applications
Mobilux EP 2	Shell Gadus S2 V220 2	Lithium	2	Mineral	EP additives, high load capacity	Bearings, chassis, industrial gears
Mobilith SHC 100	Shell Gadus S2 V100 2	Lithium	2	Synthetic	Excellent low-temperature performance	Heavy-duty industrial applications
Mobilux EP 0	Shell Gadus S2 V0 2	Lithium	0	Mineral	High-temperature stability	Small bearings, precision equipment

Note: Actual charts are often more detailed and include more products, but the above provides a snapshot.

Key Products and Their Equivalents

To understand the practical application of the equivalency chart, let's examine some common grease products from Mobil and Shell and their equivalents. Mobil Products and Their Shell Counterparts

- Mobilux EP Series (Mineral Lithium Complex Greases)**
 - Mobilux EP 2:** A general-purpose lithium complex grease with EP additives, suitable for heavy-duty bearings and industrial applications.
 - Mobilux EP 1:** Slightly less thick, ideal for small bearings or high-speed applications.
 - Mobilux EP 0:** Designed for very light loads and high-speed applications.
- Shell Equivalents:**
 - Shell Gadus S2 V220 2:** Similar high-performance lithium complex grease with EP properties.
 - Shell Gadus S2 V220 1:** For lighter loads.
 - Shell Gadus S2 V0 2:** For very light-duty uses.
- Mobilith SHC Series (Synthetic Greases)**
 - Mobilith SHC 100:** Versatile synthetic grease with excellent low-temperature properties and high-temperature stability.
 - Mobilith SHC 220:** For heavy-duty applications requiring high load capacity.
 - Mobilith SHC 007:** A lithium complex grease for high-temperature environments.
- Shell Equivalents:**
 - Shell Gadus S2 V100 2:** Synthetic lithium complex grease comparable to Mobilith SHC 100.
 - Shell Gadus S2 V220 2:** Similar to Mobilith SHC 220.
 - Shell Gadus S3 V220 2:** Polyurea-based synthetic for high-temperature applications.

Choosing the Right Equivalent: Factors to Consider

While the chart provides a technical basis for substitution, selecting the appropriate equivalent involves more nuanced considerations:

- Application Requirements**
 - Load Conditions:** EP properties are critical for heavy loads.
 - Speed:** High-speed applications may benefit from low-temperature or high-penetration greases.
 - Temperature Range:** Ensure the grease can operate effectively within the service temperature spectrum.
- Environmental Conditions**
 - Water Resistance:** Critical in outdoor or wash-down environments.
 - Corrosion Protection:** For marine or humid conditions.
 - Contamination Tolerance:** Some greases are formulated to resist dirt and debris.
- Compatibility**
 - Material Compatibility:** Ensure the grease does not adversely affect seals, plastics, or rubber components.
 - Previous Lubrication:** When switching brands, thorough cleaning might be necessary to prevent incompatibility.
- Regulatory and Specification Standards**
 - Verify compliance with standards such as NLGI, ASTM, or OEM specifications.

Practical Tips for Using the Equivalence Chart Effectively

- Consult Technical Data Sheets:** Always cross-reference the detailed datasheets for precise formulation info.
- Perform Trial Runs:** Before large-scale switching, conduct tests to validate performance.
- Maintain Documentation:** Record lubricant types and equivalents to facilitate future maintenance planning.
- Train Staff:** Ensure maintenance personnel understand the equivalency principles and application nuances.
- Monitor Equipment:** Observe for signs of inadequate lubrication, such as increased wear or overheating, after switching products.

Limitations and Considerations

While the Mobil Shell grease equivalent chart is a valuable tool, it is not infallible. Several limitations exist: - Formulation Differences: Even if two greases are rated similarly, proprietary additives may influence performance. - Aging and Storage: Greases can degrade over time; always use within shelf life. - Manufacturer Recommendations: Some OEMs specify particular brands or formulations; deviations should be approved.

Conclusion: Leveraging the Equivalence Chart for Optimal Maintenance

The Mobil Shell Grease Equivalent Chart is more than just a cross-reference; it is a strategic tool that empowers maintenance teams to make informed decisions, optimize inventory, and ensure machinery operates at peak performance. By comprehensively understanding the parameters that define grease performance and carefully assessing application requirements, users can confidently substitute products when necessary, without risking equipment integrity. Ultimately, the chart simplifies complex formulation comparisons into actionable insights, fostering efficiency, cost savings, and operational excellence. As with any technical resource, it should be used in conjunction with detailed datasheets, manufacturer recommendations, and professional judgment to achieve the best results. In summary: - Know your application's specific lubrication needs. - Use the Mobil Shell grease equivalency chart as a guide, not a definitive manual. - Always validate substitutions through testing and consultation with technical experts. - Keep abreast of product updates and formulation changes from both brands. By integrating these practices, maintenance professionals can harness the full potential of high-quality lubricants, ensuring machinery longevity and operational reliability for years to come.

Questions & Answers About mobil shell grease equivalent chart

No	Question	Answer
1	What is a Mobil Shell grease equivalent chart?	A Mobil Shell grease equivalent chart is a reference tool that compares different grease products from Mobil and Shell to find equivalent lubricants based on specifications such as NLGI grade, dropping point, and performance characteristics.
2	Why is it important to use a grease equivalent chart when switching brands?	Using a grease equivalent chart ensures compatibility and maintains equipment performance by selecting lubricants with similar properties, preventing potential damage or inefficiency caused by incompatible products.
3	How can I determine the equivalent Shell grease for a Mobil grease I currently use?	You can consult a Mobil Shell grease equivalent chart to compare the technical specifications, such as consistency, temperature range, and additive composition, of your current Mobil grease to find the corresponding Shell product.
4	Are Mobil and Shell greases interchangeable?	Interchanging Mobil and Shell greases is possible when the products are equivalent in terms of specifications and performance. Always verify compatibility using an equivalent chart to ensure optimal lubrication and equipment safety.
5	What factors should I consider when choosing a grease equivalent?	Key factors include NLGI consistency grade, dropping point, load-carrying capacity, thermal stability, additive chemistry, and compatibility with existing lubricants and equipment requirements.
6	Where can I find a reliable Mobil Shell grease equivalent chart?	Reliable charts can typically be obtained from official Mobil and Shell technical datasheets, lubricant distributor resources, or industry-standard lubricant reference guides.
7	Can using an equivalent grease affect warranty or equipment performance?	Using non-recommended or non-equivalent greases can impact equipment performance and may affect warranties. Always consult manufacturer guidelines and verify the equivalence before switching lubricants.

8	What are the common applications for Mobil and Shell greases with equivalents?	Both Mobil and Shell greases are used in automotive, industrial, and heavy machinery applications, including bearings, gears, and chassis lubrication, where equivalent products can often be substituted based on the chart.
9	How often should I review or update my grease selection using an equivalent chart?	Regular review is recommended whenever equipment or operational conditions change, or when switching suppliers or product formulations, to ensure continued optimal performance and compatibility.
10	What should I do if I cannot find an exact equivalent for my current Mobil grease in Shell products?	If an exact equivalent isn't available, consult with lubrication specialists or technical support from Mobil and Shell to identify the closest match or alternative product that meets your application's requirements.

mobil shell grease chart, grease comparison chart, lubricant compatibility chart, grease types comparison, bearing grease equivalents, industrial grease chart, grease specification chart, grease brand equivalents, grease performance chart, automotive grease comparison