



Q®Series by Hexagon

Q®Series is the exclusive product line designed and manufactured for Hexagon Europe under its strict quality and performance requirements.

All Q® Series products provide high-performance characteristics and are uniquely & exclusively supported by Hexagon's unmatched after-sales service and support in combination with the HAP Hexagon Analysis Programme.

Q® Auto Ice 54622 Central Automotive Lubrication Systems Lubricants

Description

Q® Auto Ice 54622 Central Automotive Lubrication Systems Lubricants by Hexagon is an advanced calcium sulphonate grease, especially formulated to cope with the severest operating conditions, heavy loads, long re-lubrication intervals, high speeds, etc. It is enriched with solid lubricants (MoS_2) that provide excellent lubricity and reduced wear. Due to its special soap structure, it offers excellent performance in wet and humid environments and a long service life. It offers protection and effective lubrication at high temperatures where other complex greases cannot perform.

Applications

Q® Auto Ice 54622 Central Automotive Lubrication Systems Lubricants by Hexagon is intended primarily as a heavy-duty machinery lubricant for components operating over a wide range of temperatures. It is especially recommended for use at high & very low temperature applications, where the superior characteristics outperform any other alkali-based grease base. IT provides long-lasting protection of components and fittings due to its very high load properties. Its excellent resistance to water makes it ideal for applications where wet operating conditions cannot be avoided. Q® Auto Ice 54622 provides the additional protection of dry lubrication for limited intervals (up to +450 °C) if the dropping point temperature of the grease is exceeded.

Advantages

- Outstanding anti-seize properties at high temperatures
- Maintains its characteristics for long storage periods.
- Excellent lubricity and wear protection
- Effective protection against rust and corrosion
- High load-carrying capacity
- Superior performance ensures longer life of grease and bearings.



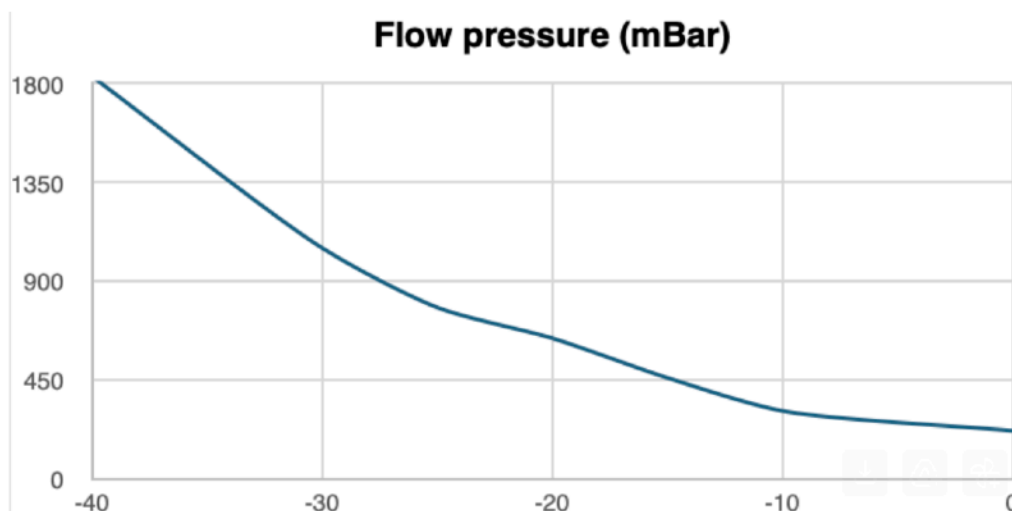
Cold Temperature Pumpability (DIN 51805)

The **Q® Auto Ice 54622 Central Automotive Lubrication Systems Lubricants by Hexagon** is specifically designed to ensure smooth flow in central lubrication systems, even under extreme cold conditions. Its pumpability is certified through the **Flow Pressure test according to DIN 51805 pII** (Kesternich method), which measures the grease's resistance at flow start at specific temperatures.

Performance Analysis:

- **Performance down to -20°C:** The product exhibits an exceptionally low flow pressure (640 mbar), ensuring minimal stress on the pump and immediate lubrication of friction points.
- **Operation in Extreme Cold (-30°C):** At the critical temperature of -30°C, Q Auto Ice 54622 maintains a flow pressure of 1050 mbar. Since this value remains significantly below the maximum industrial limit of 1400 mbar, the grease remains fully pumpable and functional.
- **Central System Reliability:** The stable behaviour of the pressure curve (mbar/°C) guarantees that the lubrication system will not experience blockages or **cavitation** due to excessive hardening of the lubricant.

Flow pressure DIN 51805 pII	Q Auto Ice 54622
Temp (oC)	Flow pressure (mBar)
0	220
-10	310
-15	460
-20	640
-25	780
-30	1050
-40	1830



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Performance Level

- DIN 51502
- DIN 51825 KPF2U-30
- ISO 6743-9 L-XBEBH2



Typical Characteristics

	METHOD	
Product Name	Q® Auto Ice 54622 Central Automotive Lubrication Systems Lubricants	
Colour		Grey/Black
Texture		Tacky
NLGI Grade		1
Worked Penetration at 25 °C, 1/10 mm	ASTM D217	310 - 340
Dropping Point, °C	ASTM D2265	310
Flash Point, (COC), °C	ASTM D92	258
Four Ball Test Welding Point (kgf)	ASTM D2596	800
Scar Diameter	ASTM D2266	0.52
Rust Preventive Properties	ASTM D1743	Pass
Water Washout characteristics, % loss, wt at 79 °C	ASTM D1264	3.8
Viscosity of Base oil at 40 °C, cSt	ASTM D445	150
Working Temperature		-30 up to +180
Method of Application	It is highly suitable for use in central lubrication systems for vehicles and industrial equipment. It can also be applied manually or by using a standard grease pump. As with all greases used for the first time, check compatibility with the previously applied grease and, if necessary, purge the bearings before application. Do not over-lubricate the bearings; apply the amount of grease recommended by the bearing manufacturer.	

Q® Auto Ice 54622 Central Automotive Lubrication Systems Lubricants

Available Packages

Pail [16 kg], Drum [180 kg]

(For more available packages, please contact your sales representative or the sales department)

Health and Safety

Avoid prolonged or repeated contact of used lubricants with skin. In case of skin contact wash well. Used lubricants should be collected in special containers and disposed of in accordance to local legislation. For additional information please consult with the Material Safety Data Sheet (SDS).

About Hexagon Europe

Hexagon Europe was founded in Greece in 1989. It is the exclusive distributor and marketer of the following brands in various territories and countries:

- **Lubrication Engineers® (USA)**, high-performance lubricants designed for heavy industries, the shipping industry, off-road and on-road vehicles and passenger cars,
- **Viper® WRL**, Wire Rope Lubricator (a unique system to lubricate and protect wire ropes of any size,
- **Spillaway® Projects**, bioremediation products that bioremediate oil spills of any kind from soil or the sea,
- **Delta-Xero®**, an innovative filtration systems manufacturer of most fluids and fuels, filters down to 1µm.
- **MAK Chem®**, with a complete line of chemical cleaning products,
- **Elix®** waterless hand-cleaning towels and other cleaning substances,
- **Fluitec® (USA)**, a producer of varnish removal fluids,
- Hexagon Europe has also designed and manufactured **Q® Series by Hexagon®**, a unique high-quality line of lubricants, including EAL (Environmentally Acceptable Lubricants) and Stern Tube oils.
- **Q® Series by Hexagon®** are available globally.

Hexagon Europe is a reliable high-product and services supplier to most heavy industries, construction, food and shipping companies in its territories, with seven major warehouses strategically located globally.

Hexagon Europe offers the most advanced and sophisticated oil analysis programme, **HAP™ (Hexagon Analysis Programme™)**. It is in partnership with Polaris®, offering unique oil analysis services and exclusively designed cloud software available to all its customers.

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