



Clarity[®] Synthetic EA Grease

High performance environmentally acceptable grease

Product description

Clarity Synthetic EA Grease is a high performance, environmentally acceptable and biodegradable anhydrous calcium thickened lubricating grease formulated with biodegradable synthetic esters. This grease contains antioxidants, corrosion inhibitors and extreme pressure (EP) and anti wear (AW) additives.

Clarity Synthetic EA Grease is formulated with a thickener in combination with biodegradable esters and offers robust lubrication performance and protection in bearings in wet and corrosive environments, even at lower temperatures and provides excellent adhesion and water resistance.

Customer benefits

- Designed for environmental acceptability and prompt and effective biodegradability
- Formulated for robust and reliable water resistance performance
- Provides equipment protection in wet and corrosive environments
- Offers dependable component corrosion resistance
- Aids protection through good adhesion

Product highlights

- **Designed for environmental acceptability**
- **Offers prompt, effective biodegradability**
- **Formulated for water and corrosion resistance**
- **Helps protect in wet and corrosive environments**
- **Offers good component adhesion**

Selected specification standards include:

DIN	ISO
SS 155470, (Eco-label)	VGP 2013

Applications

- Clarity Synthetic EA Grease is a versatile, high performance environmentally acceptable lubricant (EAL) developed for a wide variety of applications where environmental sensitivity and biodegradability may benefit operations or may be a requirement due to legislative demands
- Whilst primarily designed for marine applications, Clarity Synthetic EA Grease can also be applied to a diverse range of other applications including the forestry, agriculture and construction industries where the combination of exposed applications and operating conditions may result in an increased risk of lubricants coming into contact with the surrounding environment
- For marine applications, Clarity Synthetic EA Grease can be recommended for a range of plain and rolling element bearings or slide-ways in a variety of on-deck equipment including:
 - Boom pins, and crane pulleys
 - Anchor winches
 - Wire ropes
 - Deck equipment bearings
 - Cargo door hinges
 - Thruster and rudder bearings
 - Open gear or rack and pinion systems where conditions of operation do not require dedicated products containing solid lubricant technology
- Examples of applications in other areas where Clarity Synthetic EA Grease may also be used include the general lubrication points on steering or chassis components of forestry, agricultural and construction vehicles as well as saw chains within the forestry segment, where a biodegradable grease is required
- It is also important to note that Clarity Synthetic EA Grease offers excellent low temperature mobility and is therefore suitable for use in most modern centralised lubrication systems
- This product is especially suited for applications where risk of contamination in soil or water may occur

Approvals, performance and recommendations

Approvals

- SS 155470-listing, (Eco-label)

Performance

- VGP 2013 compliance

DIN 51 502	ISO 12924	Operating temperature
KPE2G-40	L-XD(F)BIB2	-40°C up to 100°C (Max. 110°C for a short period)

Product maintenance and handling

Maintaining a clean work environment is critical when equipment greasing is performed. Grease fittings should be wiped clean prior to grease injection to prevent contaminants from entering the equipment. Bearing housings should be maintained one-third to one-half full of grease. Over-greasing should be avoided as excessive heat build-up can result. Periodic re-lubrication via a grease gun or centralised system should be supplemented by complete cleaning and re-packing with fresh grease on an appropriate schedule.

Always follow OEM recommendations.

Typical test data		
Test	Test Methods	Results
NLGI grade	ASTM D217	2
Shelf Life: 36 months from date of filling indicated on the product label.		
Appearance	Visual	Yellow
Texture	—	Smooth
Thickener type	—	Anhydrous Calcium
Penetration worked, 60 strokes mm/10	ISO 2137	265-295
Base oil Type	—	Synthetic ester
Base Oil viscosity at 40°C, mm ² /s	ASTM D7152	500
Base Oil viscosity at 100°C, mm ² /s	ASTM D7152	53
Dropping Point, °C	IP 396	>140
Four ball Weld Load, N	DIN 51 350/4	3200
Water resistance static, 90°C	DIN 51807/1	0
Water washout dynamic at 38°C, %	ISO 11009	<10
Emcor corrosion test salt water	ISO 11007	≤2-2
Flow pressure at -40°C, mbar	DIN 51 805	<1400
Density at 15°C, kg/l	IP 530	0.940
SKF R2F B at 100°C	SKF	pass

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

Disclaimer Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheet's.

Health, safety, storage and environmental Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

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