

PRODUCT DATA SHEET

Monarch Synplex HD 460 Grease **Fully Synthetic Heavy Duty Arctic Long Life Grease**



PRODUCT DESCRIPTION:

Monarch Synplex HD 460 Grease is a premium quality, multi-service, fully synthetic oil base grease. This grease provides the extended long service life at exceptionally high temperatures in heavy-duty operations. It is based on a unique lithium complex soap base thickener formulated in highly refined poly alpha olefin base oil. This grease possesses extreme pressure/anti-wear, anti-corrosion & antioxidant characteristics to enhance its performance at lower speeds, heavy loads and at high temperatures.

Monarch Synplex HD 460 Grease has a dropping point of over +500 F, allowing it to perform in even the highest temperature environments. The synthetic base fluid allows this grease to flow at very low temperatures, even when supplied through a centralized lube system.

KEY FEATURES:

- Synthetic PAO base oil.
- Superior oxidation resistance and rust protection.
- Outstanding extreme pressure protection.
- Excellent Water Resistance.
- Long life and suitable for Fill for Life applications.

CUSTOMER BENEFITS:

- Suitable for medium speed bearing running under different operating conditions. Works satisfactorily under extremely low temperatures. The specialized additives present in the grease protect equipment from chemical oxidation, rust and corrosion resistance, thus providing long service life.
- Extends equipment life under continuous high operating temperatures and corrosive environments.
- Provides effective wear protection for ball joints, drive shafts and other parts subjected to high pressure and shock loading.
- It works effectively for extended periods of time under water ingress and in dusty/harsh environments.

APPLICATIONS:

Recommended for high temperature applications in industries like Steel, Aluminum, Cement, Mining, Construction, off highway, transport, power, chemical etc. For lubrication of ball roller bearings, work rolls bearings, bushings, slides & screws where loads may be extremely high. It is also suitable for bearing lubrication of continuous caster, bloom caster etc for steel mills. **This product works extremely well in arctic or sub-zero temperatures.**

SPECIFICATIONS AND APPROVALS:

National Lubricating Grease Institute (NLGI) rating GC-LB

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PACKAGING:

Drums

Typical Properties

Monarch Synplex HD 460 Grease		
Product Number	927RA	Test Method
Color	Red	Visual
Texture	Smooth , Tacky	Visual
NLGI Grade	2	ASTM D 217
Worked Penetration	286	ASTM D-217
Change in Pen after 100,000 strokes	30 max	
Drop Point , ° F	500 Min.	ASTM D 2265
Viscosity @ 40 C ,cSt	456	
Viscosity @ 100 C ,cSt	35.5	
Viscosity @ 100 F ,SUS	2417	ASTM D 445
Viscosity @ 210 F ,SUS	173	
Type of thickener	Lithium complex	-
4-Ball EP load, kg	400	ASTM D 2596
Timken OK load , lbs	60	ASTM D 2509
Water Washout ,175 F, % wt	2.3	ASTM D 1264

Typical Properties are typical of those obtained with normal production tolerance and do not constitute essentially a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice.

Health and Safety:

When used for its intended application, this product is not expected to have any adverse health implications. For complete information on safe handling, as well as physical and chemical characteristics please refer to the Material Safety Data Sheet (MSDS) found on our website, www.royalmfg.com, or call 918-584-2671. Do not use this product for purposes other than its intended use. Please be responsible to the environment when disposing of used product.