



# NA-LUBE<sup>®</sup> KR-015FG

## HX-1 Food Grade Alkylated Naphthalene



**NA-LUBE KR-015FG** is a specialty HX-1 approved food grade base oil modifier for high performance lubricants and greases offering outstanding solubility plus excellent hydrolytic and thermo-oxidative stability.



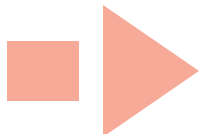
### Attributes:

- \* NSF HX-1 Registered
- \* Complies FDA 21 CFR 178.3570
- \* Base oil solubility modifier
- \* Improves additive response
- \* Excellent thermal stability
- \* Excellent hydrolytic stability
- \* Good Lubricity & Seal Swell Properties

### Typical Properties

Viscosity @ 40°C (ASTM D 445, DIN 51 550)	114 mm <sup>2</sup> /s (cSt)
Viscosity @ 100°C (ASTM D 445, DIN 51 550)	13.5 mm <sup>2</sup> /s (cSt)
Viscosity Index (Calculated)	110
Pour Point (ASTM D 97)	- 46.5°C
Aniline Point (ASTM D 611)	84°C
Density @ 25°C (ASTM D 4052)	0.884 g/ml
Weight Per Gallon @ 25°C	7.4 lbs
Flash Point, COC (ASTM D 92, DIN 51 376)	260°C

**See Reverse for Test Data & Additional Information**



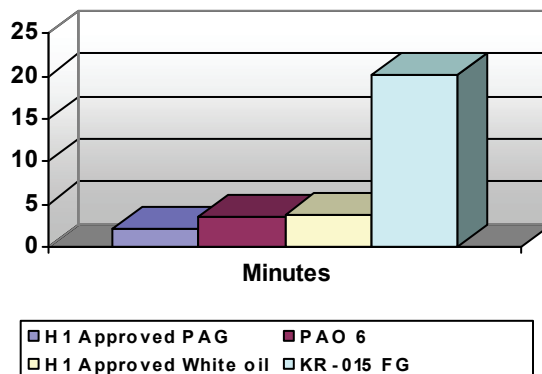
[www.kingindustries.com](http://www.kingindustries.com)

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**Thermal-Oxidative Stability (ASTM D 6186) PDSC- Pressure Differential Scanning Calorimetry**  
 Comparison of Different Base Fluids, Temperature: 200°C, Oxygen Pressure: 500 psi

As can be seen, KR-015 FG significantly outperforms the other fluids tested – PAO, White oil, and PAG base fluids

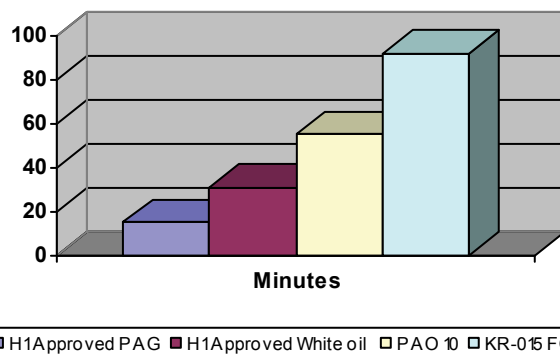
Sample	Minutes
H1 Approved PAG	2.1
PAO 6	3.6
H1 Approved White oil	3.7
KR-015 FG	20.0



**Thermal-Oxidative Stability of Base Oils (ASTM D 2272)**  
 Rotating Pressurized Vessel Oxidation Test - 90 psi, O<sub>2</sub> @ 150°C

NA-LUBE KR-015 FG has excellent thermo-oxidative stability better than other H1 approved base fluids.

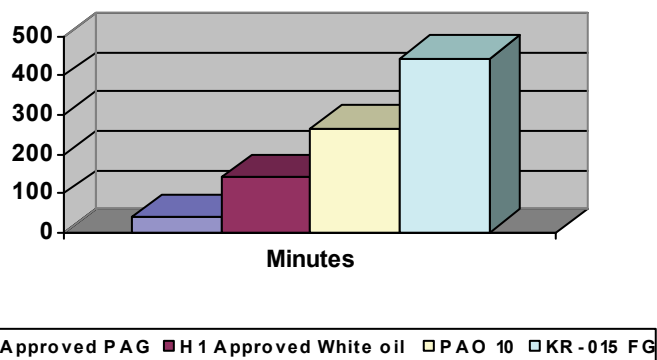
Sample	Minutes
H1 Approved PAG	15
H1 Approved White oil	31
PAO 10	55
KR-015 FG	92



**Antioxidant Effect on Thermal-Oxidative Stability of Base oils (ASTM D 2272)**  
 Rotating Pressurized Vessel Oxidation Test - 90 psi, O<sub>2</sub> @ 150°C

NA-LUBE KR-015 FG shows significant improvements to thermo-oxidative stability when 0.2% of NA-LUBE AO-142 (DPA) is added - Better than other H1 approved base fluids.

Sample	Minutes
H1 Approved PAG	40
H1 Approved White oil	141
PAO 10	266
KR-015 FG	443



**NA-LUBE  
 KR-015FG  
 Express  
 Request**

**Please Send Me:**

\_\_\_\_\_ Information Package

\_\_\_\_\_ Sample

\_\_\_\_\_ A King Sales Representative

**Please Email: [lad@kingindustries.com](mailto:lad@kingindustries.com)  
 Fax to: 203-866-0425 or Call: 800-431-7900**

Name \_\_\_\_\_

Company \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

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