

# Product Data Sheet

## K-CORR<sup>®</sup> 1031

SAMPLE REQUEST



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**K-CORR 1031** is an ashless rust inhibitor for industrial and automotive lubricants and greases.

### CHEMICAL

**COMPOSITION:** Proprietary carboxylic acid/amide chemistry.

**APPEARANCE:** Clear amber moderately viscous liquid.

### TYPICAL

<b>PROPERTIES:</b>	Nitrogen Content	3.3%
	Viscosity @ 40°C (ASTM D 445, DIN 51 550)	1030 mm <sup>2</sup> /s (cSt)
	Viscosity @ 100°C (ASTM D 445, DIN 51 550)	50 mm <sup>2</sup> /s (cSt)
	Density @ 25°C (ASTM D 4052)	1.01 g/ml
	Weight Per Gallon @ 25°C	8.4 lbs
	Acid Number, TAN (Potentiometric)	90 mg KOH/g
	Mineral Oil Content	None
	Flash Point, COC (ASTM D 92, DIN 51 376)	160°C (320°F)

Note: The above analytical data are not specifications.

	<u>Typical Treat Levels</u>
<b>APPLICATIONS:</b> Hydraulic Fluids, Ashless (HF-0, HF-2)	0.05% - 0.5%
Circulating and Compressor Oils	0.05% - 1.0%
Industrial and Automotive Gear Oils	0.10% - 1.5%
Paper Machine Oils	0.25% - 1.0%

**K-CORR 1031** is a 100% active ashless rust inhibitor with a relatively low acid number compared to succinic acid half esters. **K-CORR 1031** is well suited for formulating ashless rust and oxidation oils, hydraulic oils, paper machine oils and industrial and automotive gear oils. **K-CORR 1031** has excellent solubility in low polarity base oils such as PAO and severely hydrotreated Group II and Group III base oils.

- ADVANTAGES:**
- \* Ashless rust inhibitor with an acid number below 100 mg KOH/g
  - \* Excellent solubility in low polarity base oils
  - \* Good hydrolytic and thermal stability
  - \* No detrimental influence on the AFNOR dry and wet filtration tests
  - \* No detrimental influence on FZG performance
  - \* Synergistic AW performance with selected EP chemistries

(see reverse side)

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**TEST RESULTS:** Technical reports are available from King Industries and can be requested by contacting the offices shown below.

**SOLUBILITY:** Soluble in petroleum and synthetic lubricant base stocks and most common solvents. Insoluble in water. However, it is recommended to verify the solubility in the base oils used and the compatibility with other additives.

**STANDARD PACKAGING:** 440 lbs (200 kg) closed head drum.

**STORAGE CONDITIONS:** Formation of haze or crystallization may occur during storage. If this occurs, warming to 40-50°C with agitation will reconstitute the product. Avoid overheating to temperatures above 60°C. Store in a cool, dry place away from any direct source of heat and moisture. Maximum recommended storage temperature: 46°C (115°F).

**SHELF LIFE:** Best if used within 12 months from the date of manufacture.

**HANDLING:** Avoid all personal contact. Observe good personal hygiene. For additional information, it is advised to consult the Safety Data Sheet (SDS) for **K-CORR 1031**.

**REGISTRATION:** Please refer to Section 15 of the Safety Data Sheet for information.

For Samples or Technical Service, contact King Industries or your King representative.

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Revision date: 02 APR 2015

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