

Product Data Sheet

K-CORR[®] 100



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K-CORR 100 is an ashless rust inhibitor for industrial and automotive lubricants and greases.

CHEMICAL

COMPOSITION: Proprietary ester/amide/carboxylate chemistry.

APPEARANCE: Clear amber moderately viscous liquid.

TYPICAL

PROPERTIES:	Nitrogen Content	2.7%
	Viscosity @ 40°C (ASTM D 445, DIN 51 550)	470 mm ² /s (cSt)
	Viscosity @ 100°C (ASTM D 445, DIN 51 550)	22 mm ² /s (cSt)
	Density @ 25°C (ASTM D 4052)	1.03 g/ml
	Weight Per Gallon @ 25°C	8.6 lbs
	Acid Number, TAN (Potentiometric)	107 mg KOH/g
	Mineral Oil Content	None
	Flash Point, COC (ASTM D 92, DIN 51 376)	165°C (329°F)

Note: The above analytical data are not specifications.

	<u>Typical Treat Levels</u>
APPLICATIONS:	
Hydraulic Fluids	0.05% - 0.5%
Circulating Oils	0.05% - 1.0%
Industrial and Automotive Gear Oils	0.10% - 1.0%
Paper Machine Oils	0.25% - 1.0%
Greases	0.50% - 3.0%

K-CORR 100 is a 100% active ashless rust inhibitor with a relatively low acid number compared to succinic acid half esters. **K-CORR 100** is an excellent rust inhibitor for formulating ashless rust and oxidation oils, hydraulic oils, paper machine oils, and industrial and automotive gear oils. **K-CORR 100** displays synergistic effects in the Four Ball Wear (ASTM D 4172) test when used in combination with ashless phosphorus-containing antiwear additives or sulfur-containing EP additives such as NA-LUBE[®] EP-5130. **K-CORR 100** is well suited for formulating automotive CV-Joint greases when used in combination with EP/AW additives.

- ADVANTAGES:**
- * Ashless rust inhibitor with an acid number less than 110 mg KOH/g
 - * Good demulsification properties
 - * No detrimental effect on FZG performance
 - * Friction modifier when used in conjunction with EP/AW additives
 - * Good thermal and hydrolytic stability
 - * Biodegradability >90% per CEC-L-33-A-93

(see reverse side)

K-CORR[®] 100

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.

PACKAGING: 420 lbs (191 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 18 months from the date of manufacture.

HANDLING: Avoid all personal contact. Observe good personal hygiene. For additional information, it is advised to consult the Material Safety Data Sheet (MSDS) for **K-CORR 100**.

REGISTRATION: Please refer to the Material Safety Data Sheet.

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

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