

Product Data Sheet

K-CORR[®] 100A2



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K-CORR 100A2 is an ashless rust inhibitor for industrial and automotive lubricants and greases.

CHEMICAL

COMPOSITION: Proprietary preparation of ester/amide/carboxylate and an amine.

APPEARANCE: Clear amber moderately viscous liquid.

TYPICAL

PROPERTIES:	Nitrogen Content	3.2%
	Viscosity @ 40°C (ASTM D 445, DIN 51 550)	285 mm ² /s (cSt)
	Viscosity @ 100°C (ASTM D 445, DIN 51 550)	18 mm ² /s (cSt)
	Density @ 25°C (ASTM D 4052)	0.97 g/ml
	Weight Per Gallon @ 25°C	8.1 lbs
	Acid Number, TAN (Potentiometric)	80 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 100A2 is a 100% active ashless rust inhibitor with a relatively low acid number compared to succinic acid half esters. **K-CORR 100A2** is an excellent rust and corrosion inhibitor for formulating ashless circulating oils, hydraulic oils, paper machine oils, and industrial and automotive gear oils. **K-CORR 100A2** 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. Compared to ashless rust inhibitors with acid numbers higher than 100 mg KOH/g, **K-CORR 100A2** does not have a detrimental influence on FZG performance when used in combination with common EP/AW additives.

ADVANTAGES:

- * Ashless rust inhibitor with an acid number below 90 mg KOH/g
- * Good demulsification properties
- * No detrimental effect on FZG performance
- * Good thermal and hydrolytic stability
- * Biodegradability >90% per CEC-L-33-A-93

(see reverse side)

K-CORR[®] 100A2

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: 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 100A2**.

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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