

Product Data Sheet



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K-CORR[®] NF-200 (Formerly KX1048)

K-CORR NF-200 is a premium ashless liquid yellow metal deactivator for industrial and automotive lubricants, greases and rust preventive fluids.

CHEMICAL

COMPOSITION: Proprietary heterocyclic derivative.

APPEARANCE: Clear amber viscous liquid.

TYPICAL

PROPERTIES:	Viscosity @ 40°C (ASTM D 445, DIN 51550)	78 mm ² /s (cSt)
	Viscosity @ 100°C (ASTM D 445, DIN 51550)	6 mm ² /s (cSt)
	Density @ 15.6°C (ASTM D 4052)	0.95 g/ml
	Weight Per Gallon @ 25°C	7.9 lbs
	Flash Point, COC (ASTM D 92, DIN 51376)	170°C (338°F)

Note: The above data are not specifications.

APPLICATIONS: **K-CORR NF-200** is an ashless, easy to handle, yellow metal deactivator for protecting copper and copper alloys against corrosion initiated by active sulfur. **K-CORR NF-200** protects oils from the catalytic pro-oxidant effects of dissolved copper ions by forming a protective barrier film on the copper surface. **K-CORR NF-200** can be used in all mineral oil based lubricants and most synthetic lubricants. Depending on the base oil type and other additives, used the recommended treat level of **K-CORR NF-200** is 0.03%-0.07% by weight.

ADVANTAGES:

- * Synergistic with primary and secondary antioxidants
- * Excellent thermal and hydrolytic stability
- * Good demulsification properties
- * Outstanding solubility in mineral oil and synthetic base stocks
- * Good compatibility with other additives
- * Low viscosity

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.

(see reverse side)

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The table below shows the ability of **K-CORR NF-200** to protect copper against the corrosive effects of active sulfur. The incorporation of active sulfur into an ISO VG 32 oil results in severe corrosion of the copper strips in the ASTM D 130 test. Addition of a low treat level of **K-CORR NF-200** offsets the detrimental effects.

FORMULATIONS TESTS	--	0.05% K-CORR NF-200	--	0.05% K-CORR NF-200
Base Oil	ISO VG 32* + 50 ppm Sulfur	ISO VG 32 + 50 ppm Sulfur	ISO VG 32 + 100 ppm Sulfur	ISO VG 32 + 100 ppm Sulfur
Copper Corrosion (ASTM D 130, DIN 51 759) 3 hours, 100°C 3 hours, 135°C	3a 4a	1a 1b	4a 4c	1b 1b

* Solvent refined paraffinic oil containing 0.3% natural sulfur

STANDARD

PACKAGING: 420 lbs (191 kg) closed head drum.

STORAGE

CONDITIONS: Store in a cool dry place away from any direct sources 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 NF-200**.

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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