

PCA 1003

Description: PCA 1003 is a full performance diesel fuel treatment based on patented technology with higher flash to aid in the transportation. It is intended for off road applications or where a higher flash material is necessary.

Benefits: PCA 1003 improves fuel economy, increases fuel lubricity, increases oer (BTU), reduces NOx, particulate matter, and black smoke emissions. Helps minimize combustion chamber deposits, provides corrosion protection, and has excellent handling characteristics.

Testing: Summary of test results run at Southwest Research:

- ❖ 2.6% fuel economy improvement by the BSFE test.
- ❖ 3.06 % fuel economy improvement by the J1321 on-highway test performed by SWRI.
- ❖ 44 % improvement in lubricity as measured by the ASTM-D-6079.
- ❖ 5.7 % NOx reduction and 11.60% reduction in PM emissions. .

Application: After market diesel fuel additive market and large fuel consumers.

Treat Rate: Typical treat rates of 16 ounces treats 250 gallons of fuel. A 55 gallon drum treats 110,000 gallons of fuel.

Test Method	Typical Properties
Specific Gravity, ASTM D 287	0.90
Viscosity @ 40 C ASTM D 445	0.8
Flash Point COC (F)	175
Auto Ignition Temp (F)	980
Appearance	Clear Brown Liquid
NFPA Ratings	Health: 1, Flammability:2, Reactivity: 0

Storage: Store the product in a cool, dry environment. Standard handling precautions should be taken. Refer to the MSDS for specific information.

Packaging: Available in 55 gallon drums.

No warranties, express or implied, including warranties of merchantability or fitness for a particular use are made with respect to the products described herein. Nothing contained herein shall constitute permission or a recommendation or inducement to practice any invention covered by a patent without the permission of the patent owner. Customers/users are advised to test the product in advance to make certain it is suitable for their particular production conditions and use or uses of the product. Seller shall not be liable for and the customer assumes all risk and liability for any use or handling of the product. Date: 12-13-10