

Fuel Upgrading Specialties

Product Data Sheet



Anti-Corrosion Additive

PGA-03

Product introduction

The additive is mainly used to suppress the corrosion on metals by all models of methanol gasoline during application. Methanol gasoline has substantial polar groups and simultaneously substantial unstable components such as olefin, polycyclic aromatic hydrocarbon, sulphur oxides and other non-hydrocarbon compounds, which will cause severe corrosion to the metallic matrix so that the color of the gasoline deepens as the time of storage extends. This product is an efficient gasoline additive with strong activity and stability. It can develop perfect corrosion resistant and protective film on the surface of metals to prevent the corrosion to metals by corrosive substances within the gasoline, to improve the quality of gasoline and prolong the service life of the equipment. Because the components contain effective elements contributing to the improvement of gasoline quality of methanol gasoline, such as fatty alcohol, surfactant and rust protection agent, these components have double groups soluble in both gasoline and methanol and thus further contribute to the solution and stabilize the effect. PGA-03 stabilizes the pHe (ASTM D6423) of methanol prior to blending, preventing the development of corrosive acids in the alcohol. It also delivers excellent corrosion inhibition and metal protection throughout the fuel distribution system and right through to the end-user.

Application

PGA-03 was developed to overcome in-service corrosion problems with fuel-grade methanol and gasohol. Laboratory testing and field experience indicates that benefits can be given when used with other oxygenates such as ethers. It prompts the improvement of gasoline quality of methanol gasoline to some extent. Meanwhile, the formula, free from strong acid and base elements, will not destroy the acid-base equilibrium of the gasoline

Composition

The additive contains zinc dialkyldithiophosphate, triethanolamine and molybdophosphate are the premier corrosion inhibitor for use in oxygenates and gasoline/oxygenate blends. Originally solution of organic acids and proprietary components in complex solvent system.

Treat Rate

We recommend adding the PGA-03 to the alcohol or other oxygenate so that a concentration from 0.05% to 0.1% is delivered in the finished blended solution.

Physical and chemical indicators

- Appearance: Dark amber
- Kinematic Viscosity 40°C: 27 cSt
- Density: 0.94
- PH value: 6-7
- Pour point lower than -39°C
- Close flash point: 19°C

Safety and First Aid

Eye contact: Immediately flush with plenty clean water for at least 15 minutes until irritation disappears.

Skid contact: Remove contaminated clothing immediately and wash thoroughly with soapy water

Intake: Do not induce vomiting. If the person is conscious, let him drink some milk or water to dilute inhalation. Keep warn and quiet

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