

Fuel Upgrading Specialties

Product Data Sheet



Anti-swelling Additive

PGA-01

Product introduction

Anti-rubber swelling additive for methanol gasoline is produced by compound mixture of efficient surfactant, low and high temperature antioxidants, rust protection agent, dispersing agent and selected cosolvent by certain proportion, and can be added to methanol gasoline by certain proportion. It has excellent anti-wear performance, excellent oxidation resistance and excellent corrosion resistance. It can prevent the wear and corrosion of relevant sealed parts of vehicles, maintain the elasticity of rubber parts so as not to be aged, and maintain long stability of the gasoline without any leakage. It also has the functions of improving power performance of vehicles and reducing oil consumption.

Application

This product, with the convenience of applying, can be directly added to methanol gasoline and can be directly applied to all automobiles without the need to change rubber parts. This product has proven effect of anti-rubber swelling performance.

Composition

The solution contains polyisobutylene, sodium dodecylbenzene sulfonate, 2,6-di-tert-butylphenol and alkylphenol. The components in its formula have sulfoacid polar groups, which have strong surface activity by virtue of the structure composed by oleophilic non-polar groups and alcohol-philic polar groups, and these sulfoacid polar groups can impose strong absorption reaction upon the solid rubber surface, and formulate a firm protective film, and when it absorbs, the sulfoacid polar end absorbs on the rubber surface with the non-polar end connecting outwards to the methanol gasoline, and thus it can prevent the invasion of methanol gasoline and accomplish the goal of reducing rubber swelling.

Treat Rate

We recommend adding the PGA-01 to the alcohol or other oxygenate so that a concentration from 0.02% to 0.5% is delivered in the finished blended solution.

Physical and chemical indicators

- Appearance: yellow liquid
- Specific gravity: 0.94
- PH value: approximately 6
- Pour point lower than -40°C
- Close flash point: 68°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 warm and quiet

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