ZX-RF-08-A

Gasoline MMT Type A

General

Gasoline MMT Type A (as Gasoline octane value lifting agent) ZX-RF-08-A is a high performance gasoline octane value improver of the type of methylcyclopentadienyl manganese tricarbonyl. It is a compound with gasoline antiknock properties and can effectively enhance the gasoline oactane number and greatly reduce the harmful discharge from automobile exhaust emissions such as NOx, CO, and HC.

Composition

Methylcyclopentadienyl Manganese Tricarbonyl

Product properties

Appearance	Orange liquid
Density (20℃)	1.35 - 1.40 g/ml
Freezing point (initial)	**<=** **-**1℃
Flash point (close cup)	**>=** 80 ℃
Manganese content (weight, 20℃(%	**>=** 24 **%**

〈Remark: We can also offer the low manganese content (15%) product Gasoline octane value lifting agent ZX-RF-08-B which can be directly used into gasoline.〉

Application

Machanism Product characteristic

Gasoline MMT Type A ZX-RF-08-A is decomposed to form active manganese oxides in combustion process. Its surface reaction causes declining peroxide concentration which have already established in the engine combustion chamber at the front of flame and selectively cuts off some free-radical chain reaction. Hence it inhibits the automated ignition and slows the velocity of the energy release so as to improve its antiknock ability.

Characteristic

Gasoline MMT Type A ZX-RF-08-A can effectively match with MTBE and ethanol to enhance the gasoline octane number. It can solve the trouble of insufficient vehicle dynamic power due to overdosing MTBE.

Dosage Rate

The dosage is about 100g/Mt Gasoline MMT Type A ZX-RF-08-A added in gasoline. The exact treat rate should be confirmed by testing. If diluted Gasoline MMT Type A ZX-RF-08-A , the dose is accordingly added.

Using instruction

Gasoline MMT Type A ZX-RF-08-A (MMT) should be diluted and then added to gasoline. The MMT and special additives are added into the solvent (such as toluene, mixed xylene, ethanol, solvent oil, gasoline, etc.) at the same time. Under N2 protection, the mixture should be stirred for 30 minutes till fully dissolved to the final MMT solution, and then be added into gasoline in proportion.

Low-concentration MMT products (like ZX-RF-08-B) can be directly transferred into the gasoline in proportion. Handling and blending temperature is - 25℃ to -50℃.

Packing and transportation

Galvanized iron drums, IBC tanks and ISO tanks. Shipping name(IMO): 6.1 UN3281, PGII, Marine Pollutant.

Storage

Gasoline MMT Type A ZX-RF-08-A should be stored in a cool, dry and well-ventilated warehouse to keep it away from heat/sparks/open flames/hot surfaces. Its shelf life is one year. Keep containers tightly closed and store it with inert gas(i.e. nitrogen) if it is not used. As Gasoline MMT Type A ZX-RF-08-A is light sensitive to be decomposed if it is exposed to sunshine, its samples or its gasoline samples shall be kept in brown container.

Safety and handling

Away from heat/sparks/open flames/hot surfaces. Avoid violent impact and collision. Gasoline MMT Type A ZX-RF-08-A shall not be directly contacted with eye and skin, or inhaled and ingested because it belongs to toxic category. For further information, see the Product MSDS.

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