



## MagCare GT30

High temperature Corrosion Inhibitor for Gas Turbines

## Product Data Sheet

**MagCare GT30** is a Highly Advanced Nano Dispersed Oil-soluble Magnesium fuel additive for crude and residual fuels (Type A & B Fuels). It gives reliable high temperature corrosion protection of gas turbines on high ash-bearing fuels. It is a specially designed product to prevent high-temperature corrosion in gas turbines by increasing ash melting temperatures. A reduced additive consumption lowers transport costs, handling efforts, storage requirements and other operational expenses.

**MagCare GT30** is a high-tech product effectively preventing high temperature vanadic oxidation. Its stability and water resistance outperforms sulfonate and carboxylate type additives.

**MagCare GT30** is based on Magnesium Oxide and can be used in conjunction with other crude or fuel oil treatment.

### Key Features & benefits

- Low sodium, potassium and calcium levels to meet the specifications for both type A & B fuels.
- Offers significant economic and operational benefits. Drastically reduces consumption compared to lower concentrate additives.
- 30% of highly reactive magnesium ensure reliable high temperature corrosion protection in the hot gas path of the turbines and furnace, super heater and re-heater tubes.
- Modifies Boiler plant / Process Heater Fly Ash.
- Reduces Acid Dew Point of Exhaust Gases.
- Reduces Boiler Plant Cold-End cession & also cold end sulphuric acid corrosion.
- Exceptionally high stability, water tolerance and asphaltene compatibility in crude oils and heavy residual-grade fuels.
- Removes existing hard deposits of vanadium and sodium and inhibits the formation of new hard and corrosive deposits.
- Inhibits vanadium/sodium initiated high temperature corrosion.
- Reduces initiated low temperature corrosion.
- A very good reactive magnesium oil soluble fuel additive for use in Gas Turbines.

### Application

**MagCare GT30** fuel additive is a high temperature corrosion inhibitor for Hot Gas path in Gas Turbines and Hot Section Boiler/ Furnace tube protection. **MagCare GT30** increases the fusion point of corrosive metallic, ash forming constituents in the fuel. **MagCare GT30** reduces slag formation by promoting the formation of powdery, non-tenacious ash for easy removal by soot blowing or water washing. **MagCare GT30** will suppress the oxidation of SO<sub>2</sub> into SO<sub>3</sub> by decatalysing hot reactive surfaces and therefore reduces the risk of sulphuric acid corrosion of the plant cold end. **MagCare GT30** is a ready to use oil soluble liquid for injection directly into the fuel handling system.

### Dosage

The dosage rate is dependent on content of vanadium and sodium. MagCare will help to recommend dosage rate based on fuel type used.

### PROPERTIES

Mg in wt%: 30

Appearance: Whitish Creamish

Viscosity @ 25°C: 120 - 200 cPs

Specific Gravity @ 30°C: 1.30 ± 0.05

Particle Size: d90 below 2 micron

### Materials Compatibility

#### Suitable:

Metals: 316 Stainless Steel, Mild Steel C1018, Aluminum 7075-T6, 304 Stainless Steel

Plastics: Polyethylene, Nylon 11, HYTREL® 6356, PEEK™ Elastomers: Nitrile Buna N, PTFE, VITON® 75, VITON® 58 Shore 90

#### Not suitable:

Plastics: Polypropylene  
Elastomers: HNBr, EPDM

### PACKAGING

200 L Epoxy Coated Metal Drums

1000 L IBC

### HANDLING

**MagCare GT30** should be handled in the same way as diesel oil.

Please refer to the product label and the Material Safety Data Sheet (MSDS) for more detailed information.

### Storage

The product is stable for a longer period if it is stored and sealed in the original containers. Drums and containers should be closed when not in use.

### Shelf life

1 year from the date of manufacture.

*The information given in this document is based on the present state of our knowledge, but any conclusions and recommendations are made without liability on our part. Buyers and users should make their own assessment of our products under their own conditions and for their own requirements.*



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