

Refining Chemicals



*Octane Improver
Antioxidants
Fuel Dyes
Conductivity Improver
Cetane Improver
Metal Deactivator
Lubricity Additives
Gasoline Detergent
Diesel Detergent
Diesel Cold Flow Improvers
Crude Oil pre-treatment / Demulsifier
DeNOx / DeSOx
Drag Reducers
Catalyst / Support Materials
Filtration and Purification Products
Process Antifoams
Amines*

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(See reverse for more information)

Product Name	Chemistry	Application
Octane Improver	Proprietary blends	Used in vehicles and jet fuel. Results in higher performance
Antioxidants	PDA / Phenol	Improve storage and color stability of gasoline and cracked stocks
Fuel Dyes	Solvent / Powdered Dyes	Colorize and differentiate between grades of fuel
Conductivity Improver	Proprietary Organic Polymer	Dissipates static discharge in fuels
Cetane Improver	Ethylhexyl Nitrate and Peroxide chemistry	Improves engine performance in Diesel fuels
Metal Deactivator	Diamine chemistry	Protects from metal catalyzed oxidation
Lubricity Additives	Acid and Ester chemistry	Prevents engine wear and reduce maintenance costs
Gasoline Detergent	Proprietary blends	Improve Gasoline performance
Diesel Detergent	Proprietary blends	Improve Diesel performance
Diesel Cold Flow Improvers	Polymer blends	Improves low temperature Diesel performance
Crude Oil pre-treatment / Demulsifier	Various blends	To remove salt / water from Crude Oil
DeNOx / DeSOx	Various blends	Reduces Nitrogen Oxides and Sulfur Oxides in refining processes
Drag Reducers	High molecular weight polymer	Improve transportation characteristic of the crude / fuels
Catalyst / Support Materials	Mercury, Sulfur, Arsenic, Alumina, Molecular Sieves	Removal of high concentration of contaminants
Filtration and Purification products	Alumina / Silica / Carbon	All filtration and purification applications
Process Antifoams	Polyglycol / Silicone / Non-Silicone	Suppress process foaming
Amines	MDEA, DEA, MEA, DIPA, DGA	Removes Hydrogen Sulfide and Carbon Dioxide in Gas processing