

## MAGELLAN PIPELINE ADDITIVE SPECIFICATIONS

Magellan will permit the types and concentrations of additives detailed below; all other types and concentrations or additives are prohibited.

Additive products containing Dodecenyl Succinic Anhydride or Dodecenyl Succinic Acid (DDSA) will not be reviewed for approval and are strictly prohibited.

### Gasoline Additive Specifications

The following additive specifications apply to all grades except aviation products, LPG's, and Natural Gasoline, for the grades noted in each section (H, I, L, Q, and W Grade).

#### Gum Inhibitors and Metal Deactivators

Gasoline shipments may, but are not required to, contain any of the following gum inhibitors and/or metal deactivators:

N, N'di-secondary butyl ortho-phenylenediamine  
N, N'di-secondary butyl para-phenylenediamine  
N, N'disalicylidene-1,2 propanediamine  
N, N'di(1-ethyl-3-methylpentyl)-para-phenylenediamine  
N, N'di-isopropyl-para-phenylenediamine  
N, n'bis-(1, 4-demethylpentyl)-p-phenylenediamine n-Butyl -  
para-aminophenol  
2-6-di-tert-butylphenol  
2,4,6-tri-tert-butylphenol  
Ortho-tert-butylphenol

UOP 12P	UOP 12S	UOP 17P
UOP 3455	UOP 5S	Innospec AO-31
Innospec AO-36	Innospec AO-37	Ethyl 733
Ethanox 4776	Ethanox 4720	Ethanox 4740
Tolad 3905	Tolad 3910	Specaid 8Q202
Nalco 88BU-118	Unichem 7529	Pitt-Consol M-56
Tolad 4695	Spec-Aid 8Q5156	Specaid 8Q206

## **Gasoline, Fuel Oil, and Diesel Fuel Additives**

### Corrosion Inhibitors

Products requiring compliance with NACE standard TM0172 may contain any of the following corrosion inhibitors:

Nalco 5403	Nalco EC5626A	Baypros 853
Nalco Visco 3554	Nalco 5405	UOP Unicor PL
Apollo PRI-19	Lubrizol 541	Unichem 7504
UOP Unicor	Innospec DCI-4A	Unichem 7501
Innospec DCI-6A	UOP Unicor J	Baker Hughes T249
HiTech 580	Hitec E-534	Baker Hughes T9715
Nalco EC5407A	Spec-Aid 8Q110ULS	Baker Hughes T9719
Spec-Aid 8Q22	Spec-Aid 8Q5127	Dorf Ketal SR1227

## **Fuel Oil and Diesel Fuel Additives**

### Stability

Fuel oil and/or diesel fuel shipments may contain one or more of the following stability additives as required to achieve compliance with the stability characteristics outlined in the applicable grade specification.

Innospec FOA-3	Chemtec 7220	Specaid 8Q72
UOP Polyflo-121	Spec-Aid 8Q403ULS	Nalco 5303
UOP Polyflo-122	Baker Hughes T9076	Nalco 5301
UOP Polyflo-128	Unichem 7530	UOP Polyflo-195
Baker Hughes T9022-M	Spec-Aid 8Q401	

**Cold Flow Additives**

Fuel oil and/or diesel fuel shipments requiring additives to achieve compliance with low temperature properties may, but are not required to contain one or more of the following pour point depressant additives:

Hitec 4541	Innospec PDD-7450	Tolad 3005-R
Innospec 2151	Spec-Aid 8Q5201	Tolad 3030
Betz Q5201	Paradyne 25	Betz 8Q12
Hitec 4518	Unichem 8094	Hitec 4566
Exxon ECA 7305	Nalco 5375	Spec-Aid 8Q14ULS
UOP Polyflo 6000	Spec-Aid 8Q72ULS	Baker Hughes T3034
Cestoil CF 2000	Nalco EC5960A	Baker Hughes T3034-D

**Dyes**

XR Grade Low Sulfur Fuel Oil is dyed at the Magellan rack.

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