

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 Dodeceny Succinic Anhydride or Dodeceny 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-phnylenediamine
 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	

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 Baker Hughes T3034-D

Dyes

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