

# MAGELLAN PIPELINE ADDITIVE SPECIFICATIONS

## 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, J8, 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	Octel AO-31
Octel AO-33	Octel AO-35	Octel AO-36
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	

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**Gasoline, Fuel Oil and Diesel Fuel Additive**

Corrosion Inhibitors

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

Nalco 5403	Nalco 5405	Baypros 853
Nalco Visco 3554	Specaid8Q103	UOP Unicor PL
Apollo PRI-19	Lubrizol 541	Unichem 7504
UOP Unicor	Octel DCI-4A	Tolad 249
Octel DCI-6A	UOP Unicor J	Unichem 7501
Tolad 245	Hitec E-534	Tolad 9715
HiTech 580	Tolad 4410	Tolad 9719
Nalco EC5407A	GE Betz AN933	

**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.

Octel FOA-3	Chemtec 7220	Specaid 8Q72
Octel FOA-11	UOP Polyflo-121	Specaid 8Q403
Nalco 5303	UOP Polyflo-122	Tolad 9076
Nalco 5301	UOP Polyflo-128	Unichem 7530
UOP Polyflo-195	Tolad 9022	Specaid 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	Octel PDD-7450	Tolad 3005
Innospec 2152	Specaid 8Q5201	Betz Q5201
Paradyne 25	Betz 8Q12	Hitec 4518
Unichem 8094	Exxon ECA 7305	Nalco 5375
UOP Polyflo 6000	Betz Specaid 8Q72	

**Dyes**

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X5 Grade High Sulfur Fuel Oil is the only product in Magellan Pipeline that requires dye at the origin. Applicable dyes and required treat rates are listed in the X5 grade product specifications.

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

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