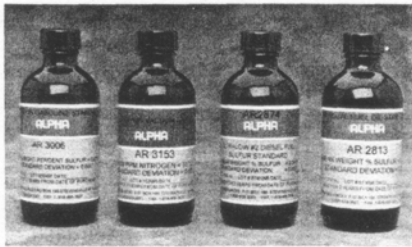


HYDROCARBON STANDARDS



GASOLINE STANDARDS

Alpha has had many requests for gasoline standards. Responding to input from our customers, we offer the following items in sets or individual bottles. Note: Lead Series and Sulfur Series are 118 mL (4 oz.) bottles.

CUSTOM BLENDING FROM ALPHA

Need a special standard blended to your specifications? Alpha will custom blend any special ranges of the listed reference materials upon request. Call Alpha toll free and discuss your specific needs.

A **certificate of analysis** accompanies every oil standard. The certificate shows the **NIST** traceability, when possible, and the values and **ASTM** methods employed in the round robin program.

*SULFUR IN GASOLINE 118 mL bottles

ALPHA NO.	% SULFUR	g/LITER	g/GALLON
AR-3000	Complete Set		
AR-3001	0.0001	0.001	0.003
AR-3002	0.0050	0.035	0.131
AR-3003	0.0100	0.069	0.261
AR-3004	0.0300	0.207	0.784
AR-3005	0.0500	0.345	1.307
AR-3006	0.0700	0.484	1.830
AR-3007	0.0900	0.623	2.353
AR-3008	0.1200	0.829	3.138
AR-3009	0.2000	1.382	5.229

*LEAD IN GASOLINE 118 mL bottles

ALPHA NO.	% LEAD	g/LITER	g/GALLON
AR-2060	Complete Set		
AR-2061	0.2000	1.382	5.229
AR-2062	0.1250	0.864	3.270
AR-2063	0.0750	0.518	1.961
AR-2064	0.0500	0.345	1.307
AR-2065	0.0250	0.173	0.656
AR-2066	0.0100	0.069	0.261
AR-2067	0.0001	0.001	0.003

*BROMINE IN ISOCTANE 118 mL bottles

ALPHA NO.	% BROMINE	g/LITER BROMINE	g/GALLON BROMINE
AR-2090	Complete Set		
AR-2091	0.0000	0.0000	0.0000
AR-2093	0.0001	0.0007	0.0026
AR-2094	0.0003	0.0021	0.0078
AR-2095	0.0005	0.0035	0.0131

VISCOSITY STANDARDS 118 mL bottles

ALPHA NO.	MATRIX	VISCOSITY
AR-3028	#1 Diesel	2.43 Centistokes @ 100F
AR-3029	#2 Diesel	2.88 Centistokes @ 100F
AR-3030	*J-P 8	5.6 Centistokes @ -4F
AR-3031	*Kerosene	1.3 Centistokes @ 100F

FLASH POINT STANDARDS 500 mL container

ALPHA NO.	MATRIX	FLASH POINT DEGREES FAHRENHEIT
AR-3024	#1 Diesel	219
AR-3025	#2 Diesel	161
AR-3026	*J-P 8	119
AR-3027	*Kerosene	136

SULFUR & CHLORINE IN LUBE OIL LIGHTER CONCENTRATIONS 118 mL bottles

ALPHA NO.	% SULFUR	% CHLORINE
AR-3510	Complete Set	
AR-3511	0.0500	0.0100
AR-3512	0.0400	0.0200
AR-3513	0.0300	0.0300
AR-3514	0.0200	0.0400
AR-3515	0.0100	0.0500
AR-3516	0.0000	0.0000

SULFUR & CHLORINE IN LUBE OIL HEAVY CONCENTRATIONS 118 mL bottles

ALPHA NO.	% SULFUR	% CHLORINE
AR-3500	Complete Set	
AR-3501	7.00	4.00
AR-3502	5.00	2.00
AR-3503	4.00	7.00
AR-3504	2.00	5.00
AR-3505	1.00	0.50
AR-3506	0.50	1.00
AR-3507	0.00	0.00

*NITROGEN IN CRUDE OIL STANDARDS 118 mL bottles

ALPHA NO.	PPM NITROGEN IN CRUDEOIL
AR-3032	67
AR-3033	750
AR-3034	1640

LOW SULFUR LUBE OIL STANDARDS 118 mL bottles

ALPHA NO.	% SULFUR
AR-3520	Complete Set
AR-3521	<0.0001
AR-3522	0.0020
AR-3523	0.0050
AR-3524	0.0100
AR-3525	0.0200
AR-3526	0.0300
AR-3527	0.0400
AR-3528	0.0500

*This item is a hazardous material and will be shipped accordingly.

Stand: 03.2009



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