

In our continuing effort to meet the demands of our customers, Alpha Resources has produced a new set of standards, for aiding in the analysis of Mercury in Coal. The EPA has mandated that companies using coal should monitor the values of Chlorine and Mercury for the material they are burning. We are happy to offer a new series of standards that conform to this requirement.

These new standards were certified for Mercury using the ASTM Method D3683-94. The Mercury values are traceable to a primary standard from the Republic of South Africa, SARM 20. The new part numbers are listed below and are now available from Alpha Resources as 25g bottles. They will come with a certificate of analysis, when purchased.

ALPHA NO Dried Basis	Mean ug/g Mercury	Mean ug/g Chlorine	Mean Weight % Sulfur	Mean Weight % Ash
AR-3701	0.09	1562	1.04	7.22
AR-3702	0.10	1713	0.77	6.45
AR-3703	0.12	165	0.45	7.64
AR-3704	0.13	107	1.17	10.31
AR-3705	0.19	239	4.71	11.80

Alpha's Coal and Coke Standards were prepared and analyzed in accordance with ASTM procedures. All standards are accompanied with a certificate of analysis and traceable to NIST whenever possible.



Alpha has a variety of reference materials in other materials such as cement, limestone, rubber, plant tissue and much more.

COAL AND COKE STANDARDS - SULFUR ONLY

Results reported on a dried basis COAL STANDARDS 50grams/bottle

AR-1700	0.30% Range	AR-1707	2.50% Range
AR-1701	0.50% Range	AR-1708	3.00% Range
AR-1702	0.70% Range	AR-1709	3.50% Range
AR-1703	0.85% Range	AR-1710	4.50% Range
AR-1704	1.00% Range	AR-1711	5.00-5.50%
AR-1705	1.50% Range	AR-1712	5.75-6.00%
AR-1706	2.00% Range	AR-1713 Lignite	1.25% Range

C, H, & N COAL STANDARDS 25 grams per bottle

ALPHA NO.	CARBON	HYDROGEN	NITROGEN
AR-1905	76.480	5.30	1.66
AR-1906	71.59	4.76	1.17
AR-1907	69.62	4.56	1.11
AR-1908	69.96	4.83	.92

COAL STANDARDS FOR CHLORINE

50 grams per bottle

ALPHA NO.	% CHLORINE
AR-1910	0.0511
AR-1911	0.1481
AR-1912	0.24

COKE STANDARDS

AR-719	.70% Range
AR-720	.90% Range
AR-723	.50% Range

Values listed are nominal. The exact chemistry is listed on each bottle. All standards are traceable to NIST if possible. Values listed are approximate and may vary somewhat on any given bottle. All standards minus 60 mesh.

PETROLEUM COKES % Present

All Pet Cokes are 60 mesh. 50 grams per bottle

ALPHA NO	S	ASH	VOL. MAT	BTU POUND	FIXED CARBON	C	H	N	NI	Fe	V	Ca	Si
AR-742B Green	.89	0.09	9.67	-	-	93.81	1.37	3.76	0.0068	0.0129	0.0022	0.0037	0.0081
AR-744 Calcined	1.91	0.55	0.33	14,216	-	96.10	0.14	1.27	145	1856	167	168	220
AR-745 Green	0.49	0.11	5.81	15,001	94.07	95.28	1.83	0.67	49.4	148.28	13.4	30.5	65.5
AR-747 Green	4.03	0.56	11.97	15,463	-	90.87	3.83	1.13	191	246	155	246	375
AR-748 Calcined	2.75	0.33	0.51	-	-	-	-	-	0.0122	0.0332	0.0310	0.0120	0.0315
AR-756 Green	5.27	0.92	6.52	14,494	-	89.60	1.66	1.90	2.90	317	1675	105	386

ALPHA NO.	DESCRIPTION	% SULFUR
AR-2712	Calcined Pet Coke	0.45%
AR-2713	Green Pet Coke	0.50%
AR-2714	Green Pet Coke	0.90%
AR-2715	Green Pet Coke	1.20%
AR-2716	Green Pet Coke	2.47%

ALPHA NO.	DESCRIPTION	% SULFUR
AR-2717	Green Pet Coke	2.21%
AR-2719	Calcined Pet Coke	1.85%
AR-2720	Green Pet Coke	4.32%
AR-2721	Green Pet Coke	5.56%
AR-2722	Calcined Pet Coke	2.80%
AR-2723	Green Pet Coke	5.16%

PROX COAL AND COKE STANDARDS

ALPHA NO.	% SULFUR	% ASH	% VOLATILE MATTER	FIXED CARBON	BTU
AR-1720	0.29	5.898	42.74	51.54	12,054
AR-1721	0.46	7.40	42.67	49.93	11,688
AR-1722	0.85	21.50	21.80	56.85	12,140
AR-1723	1.06	7.03	36.33	56.64	14,233
AR-1724	1.54	4.58	38.12	57.41	14,382
AR-1726	1.93	18.31	24.31	57.01	12,335
AR-1727	2.49	12.03	36.11	51.86	12,816
AR-1728	2.99	8.98	43.01	43.17	13,260

Coal Standards - minus 60 mesh, 50 grams per bottle...results reported on a dried basis

ALPHA NO.	% SULFUR	% ASH	% VOLATILE MATTER	FIXED CARBON	BTU
AR-1729	3.48	4.97	42.65	52.35	13,876
AR-1730	4.84	8.98	43.01	43.17	13,260
AR-1731	5.51	45.14	20.00	34.86	7,797.67
AR-1732	6.67	45.88	20.18	33.935	7,494.67
AR-1933 Lignite	0.61	7.56	38.38	54.06	13,594
AR-732	0.59	7.84	0.63	91.38	13,168
AR-733	0.67	8.52	0.60	90.88	12,489
AR-734	0.81	6.73	0.56	92.71	12,966

