

ORE, LIMESTONE AND SOILS

TOC, ROC, TIC Reference Materials

Part#	Description	TOC%	ROC%	TIC%	TC%	QTY
AEB2290	Silty Soil Standard	1.5	0.4	0.3	2.2	30G
AEB2292	Chalky Soil Standard	2.7	0.5	1.3	4.5	30G
AEB2293	Control Standard	2.0	1.8	2.0	5.8	30G
AEB2294	Incinerator Ash Standard	<0.1	0.8	0.3	1.1	30G
AEB2295	Foundry Sand Standard	1.1	1.8	0.1	30	30G

Organic Carbon

Part#	Description	Qty	Carbon%	Standard Deviation	Lot#
AR1034	Calcium Carbonate (RM only)	50g	12		18427461
AR1034-100	Calcium Carbonate (RM only)	50g	12		18427461
AR1035	Organic Carbon CRM	50g	6	0.08	035619
AR1036	Organic Carbon CRM	50g	1	0.03	036419
AR1037	Organic Carbon CRM	50g	12	0.05	034619

Ore Standards (Synthetic Carbon)

Part #	Weight	%C	Standard Deviation	Expanded Deviation	%S	Standard Deviation	Expanded Deviation	%N	Standard Deviation	Expanded Deviation	Lot #
AR4005	30g	1.42	0.02	0.05	1.33	0.05	0.12	NA			118C
AR4006	30g	4.35	0.18		4.01	0.17		NA			119B
AR4007	30g	7.32	0.12	0.26	3.24	0.07	0.16				418B

Composite Soil Standards (Synthetic Carbon)

Part #	Weight	%C	Standard Deviation	Expanded Deviation	%S	Standard Deviation	Expanded Deviation	%N	Standard Deviation	Expanded Deviation	Lot#
AR4020	100g	0.92	0.02	0.04	NA			NA			811B
AR4021	100g	3.04		0.16	0.032		0.013	NA			814A

Limestone Standards

Part #	Weight	%C	Standard Deviation	Expanded Deviation	%S	Standard Deviation	Expanded Deviation	%N	Standard Deviation	Expanded Deviation	Lot#
AR4012	25g	11.97	0.17	0.39	0.031	0.005	0.011	NA			918D
AR4013	25g	2.81	0.05	0.10	0.027	0.005	0.010	NA			616B
AR4014	25g	5.87	0.11	0.22	0.029	0.004	0.008	NA			42899
AR4022	25g	7.15	0.47		0.052	0.014		NA			519E
AR4023	25g	11.70	0.25	0.50	0.220	0.016	0.032	NA			100902
AR4024	25g	11.72	0.20	0.40	0.418	0.020	0.040	NA			101602

Soil Standards

Part#	Weight	%C	Standard Deviation	Expanded Deviation	%S	Standard Deviation	Expanded Deviation	%N	Standard Deviation	Expanded Deviation	Lot#
AR4015	25g	1.17	0.09		0.13	0.02		NA			516A
AR4016	25g	2.05		0.14	2.05		0.09	NA			320Q
AR4017	25g	0.50	0.03	0.06	0.44	0.03	0.06	NA			313B
AR4018	25g	1.18		0.17	1.03		0.09	NA			619H
AR4019	25g	0.11	0.02	-	0.11	0.02	-	NA			1215A

Part#	Weight	%C	Standard Deviation	Expanded Deviation	%S	Standard Deviation	Expanded Deviation	%N	Standard Deviation	Expanded Deviation	Lot#
<u>AR4025</u>	25g	NA			NA			0.460	0.040	0.080	8999
<u>AR4026</u>	25g	NA			NA			1.00	0.08	0.16	82599
<u>AR4027</u>	25g	NA			NA			1.64	0.13	0.26	082699
<u>AR4028</u>	25g	NA			NA			2.02	0.10	0.20	083099
<u>AR4029</u>	100g	4.93	0.06	0.12	NA	NA	NA	NA	NA	NA	217B
<u>AEB2152</u>	30g	1.65	NA	NA	0.031	NA	NA	0.14	NA	NA	
<u>AEB2176</u>	30g	15.95	NA	NA	NA	NA	NA	1.3	NA	NA	
<u>AEB2180</u>	30g	0.85	NA	NA	NA	NA	NA	0.1	NA	NA	
<u>AEB2182</u>	30g	2.2	NA	NA	NA	NA	NA	0.2	NA	NA	
<u>AEB2184</u>	30g	2.3	NA	NA	NA	NA	NA	0.2	NA	NA	
<u>AEB2186</u>	30g	2.75	NA	NA	NA	NA	NA	0.3	NA	NA	
<u>AEB2188</u>	30g	5.40	NA	NA	NA	NA	NA	0.35	NA	NA	

Loss on Ignition Standards

Part #	Weight	%LOI	Expanded Uncertainty	Lot#
AR4105	100g	4.94	0.09	419A
AR4106	100g	9.74	0.16	419B
AR4107	100g	Sold Out	Replacement	Pending
AR4108	100g	28.73%	0.24	419D

Part #	Weight	<u>H₂O loss</u> <u>@ 200°C</u>	<u>CO loss</u> <u>@ 450°C</u>	<u>CO₂ loss</u> <u>@ 850°C</u>	<u>Total LOI</u>	Lot #
AR5029	50g	12.3%	19.2%	30.1%	61.6%	520Y

Synthetic Catalyst Standard

Part#	Weight	%C	Standard Deviation	Expanded Deviation	%S	Standard Deviation	Expanded Deviation	%N	Standard Deviation	Expanded Deviation	Lot#
KED1022	100g	24.5	0.9	1.8	11.4	0.3	0.5	NA			918A
KED1024	100g	14.1	0.7	1.6	5.5	0.3	0.7	NA			1018E