

NCS Coal Certified Reference Material (CRM) (50gram)

	Sulfur (%)	Ash (%)	Volatile Matter (%)	Calorific Value (MJ/kg)	Carbon (%)	Hydrogen (%)	Nitrogen (%)	Specific Gravity (@ 20°C)	Coal Type
NCS FC 28001L	0.52	9.80	24.10	31.70	78.77	4.33	1.32	1.40	bitumite
NCS FC 28001m	0.56	9.60	24.03	32.09	79.34	4.35	1.31	1.38	bitumite
NCS FC 28002j	1.61	23.69	30.22	23.75	60.00	3.67	1.07	1.58	bitumite
NCS FC 28003f	0.28	16.27	6.51	26.38	78.10	0.93	0.23	1.95	anthracite
NCS FC 28003g	0.39	24.38	5.39	23.93	70.95	0.76	0.30	2.04	anthracite
NCS FC 28004e	1.00	28.07	4.97	23.78	66.70	1.43	0.72	1.89	anthracite
NCS FC 28004f	1.13	13.80	7.02	29.43	79.13	2.23	1.13	1.65	anthracite
NCS FC 28005e	1.76	14.28	8.69	29.61	77.83	2.73	0.85	1.58	anthracite
NCS FC 28006j	0.88	17.44	30.99	26.88	66.99	4.07	1.19	1.49	bitumite
NCS FC 28007g	1.83	14.70	34.51	27.51	68.05	4.20	1.20	1.47	bitumite
NCS FC 28008e	2.78	15.54	35.09	28.13	68.22	4.44	1.22	1.45	bitumite
NCS FC 28009f	4.34	25.42	21.68	24.71	61.46	3.34	1.06	1.62	bitumite
NCS FC 28010e	1.36	15.75	33.22	26.80	66.92	4.09	1.17	1.49	bitumite
NCS FC 28011d	2.23	20.40	6.39	26.35	72.11	1.84	0.85	1.79	anthracite
NCS FC 28012c	3.07	19.70	10.77	27.37	70.39	2.90	1.10	1.60	anthracite
NCS FC 28017a	0.26	14.56	5.77	27.12	80.19	0.98	0.23	1.92	anthracite
NCS FC 28101	0.20	3.95	6.82	34.34	90.20	3.01	0.58	1.47	anthracite
NCS FC 28102	0.19	6.40	8.20	33.1	87.10	2.86	0.60	1.50	anthracite
NCS FC 28103	0.35	10.51	9.60	31.8	81.55	3.33	1.30	1.47	anthracite
NCS FC 28104	0.40	10.09	11.00	32.04	81.45	3.52	1.34	1.45	anthracite
NCS FC 28105	1.05	9.61	12.43	32.24	81.54	3.70	1.16	1.43	anthracite
NCS FC 28106	1.70	8.41	31.92	32.87	78.98	4.95	1.38	1.35	bitumite
NCS FC 28107	0.66	10.41	15.30	31.64	79.80	3.80	1.10	1.43	bitumite
NCS FC 28108	0.57	13.68	30.91	29.72	72.94	4.46	1.29	1.42	bitumite
NCS FC 28109	0.58	11.98	11.42	30.66	79.22	3.28	1.07	1.49	anthracite
NCS FC 28110	0.87	8.42	32.94	30.64	75.96	4.52	1.33	1.41	bitumite
NCS FC 28111	1.26	25.50	28.65	24.10	60.03	3.73	1.04	1.57	bitumite
NCS FC 28112	2.10	8.08	33.70	32.82	78.78	5.01	1.31	1.33	bitumite
NCS FC 28113	0.27	7.06	33.40	29.90	74.70	4.47	1.02	1.41	bitumite
NCS FC 28114	0.20	4.66	33.20	30.58	76.69	4.42	1.08	1.40	bitumite
NCS FC 28115	0.42	6.38	32.22	30.80	77.28	4.42	1.21	1.41	bitumite
NCS FC 28116	0.54	6.03	32.41	31.60	78.58	4.59	1.32	1.39	bitumite
NCS FC 28138	1.42	44.23	11.31	18.40	47.12	2.48	0.73	1.79	anthracite
NCS FC 28139	1.34	22.90	18.09	27.16	67.28	3.68	1.05	1.51	bitumite
NCS FC 28140	1.30	25.88	30.43	22.64	58.12	3.40	1.04	1.62	bitumite
NCS FC 28141	3.02	28.87	11.08	23.37	60.26	2.75	0.84	1.68	anthracite
NCS FC 28142	4.52	34.10	13.03	21.80	55.14	2.79	0.84	1.72	bitumite
NCS FC 28143	6.60	32.43	13.52	21.23	54.21	2.53	0.74	1.79	anthracite
NCS FC 28144	1.57	73.37	9.66	6.77	18.01	1.45	0.28	2.29	coal waste

NCS Coal & Coke Standards (continued)

Arsenic and Phosphorus in Coal (50gram)

No.		As ($\mu\text{g/g}=\text{ppm}$)	P (%)
NCS FC82001	Certified Value	15	0.031
NCS FC82002	Certified Value	34	0.007
NCS FC82003	Certified Value	51	0.092

Chlorine in Coal (50gram)

No.		Cl (%)
NCS FC82004	Certified Value	0.01
NCS FC82005	Certified Value	0.057
NCS FC82006	Certified Value	0.11

Fluorine in Coal (50gram)

No.		F ($\mu\text{g/g}=\text{ppm}$)
NCS FC82007	Certified Value	248
NCS FC82008	Certified Value	864
NCS FC82009	Certified Value	1496

