



COAL CONCEPTS

CERTIFIED REFERENCE MATERIAL (CRM) : CATALOGUE

LIST OF SPECIFICATIONS-Version 30/11/2024

PULVERISED COAL LESS THAN 212µm FOR GENERAL ANALYSIS, < 60 MESH (DRY BASE RESULTS)

PRODUCT	ISO ASH%	ISO VOLATILES (%)	CALORIFIC VALUE (MJ/Kg)	TOTAL SULPHUR (%)	PHOSPHORUS IN COAL (%)	TOTAL CARBON (%)	HYDROGEN (%)	NITROGEN (%)	AFT (REDUCING) DEFORMATION (°C)	AFT (REDUCING) SOFTENING (°C)	AFT (REDUCING) HEMISPHERE (°C)	AFT (REDUCING) FLOW (°C)
CRM 019	64.11	10.30	9.55	3.02	-	-	-	-	-	-	-	-
CRM 025	-	-	-	0.59	0.036	-	-	-	-	-	-	-
CRM 026	-	-	-	2.10	-	-	-	-	-	-	-	-
CRM 027	-	-	-	0.82	0.015	-	-	-	1350	1375	1405	1430
CRM 028	-	-	-	0.94	-	-	-	-	1228	1253	1277	1325
CRM 029	-	-	-	2.24	-	-	-	-	-	-	-	-
CRM 030	-	-	-	1.34	-	-	-	-	1383	1418	1446	1488
CRM 034	-	-	-	0.74	-	-	-	-	-	-	-	-
CRM 036	13.18	10.03	29.70	2.28	0.091	-	-	-	-	-	-	-
CRM 038	15.05	23.53	28.06	0.76	0.079	-	-	-	-	-	-	-

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CRM 039	14.54	18.61	29.53	1.63	0.046	74.69	3.77	1.95	1289	1332	1393	1450
CRM 041	29.33	18.64	22.40	1.67	0.038	57.95	2.85	1.51	1295	1330	1373	1415
CRM 042	40.69	21.43	16.44	0.82	0.061	44.17	2.43	1.03		-	-	-
CRM 045	10.53	27.42	28.83	0.60	0.033	73.15	4.04	1.70	-	-	-	-
CRM 046	16.55	20.06	28.64	1.47	0.039	71.43	3.75	1.87	1325	1355	1385	1425
CRM 047	23.49	21.72	24.09	0.91	0.093	61.95	3.06	1.45	-	-	-	-
CRM 048	4.95	3.07	32.08	0.26	0.017	90.45	1.35	0.95	-	-	-	-
CRM 049	25.07	17.87	23.96	0.98	0.052	63.39	2.97	1.40	-	-	-	-
CRM 050	13.06	26.73	27.74	0.45	0.147	70.68	3.87	1.73	-	-	-	-
CRM 052	23.81	23.23	23.95	0.90	0.030	61.52	3.42	1.52	-	-	-	-
CRM 053	14.33	27.40	27.58	0.46	0.138	70.04	4.08	1.70	-	-	-	-
CRM 054	22.73	25.23	24.56	0.94	0.037	62.71	3.49	1.52	1400	1420	1455	1500
CRM 055	18.85	23.99	25.33	0.54	0.090	66.25	3.53	1.58	-	-	-	-
CRM 056	33.53	19.37	20.23	0.98	0.043	53.05	2.84	1.20	-	-	-	-
CRM 058	15.69	28.37	27.42	0.54	0.081	69.09	3.86	1.70	1380	1410	1440	1475
CRM 060	19.06	20.94	27.24	1.56	0.034	68.67	3.63	1.74	1345	1375	1400	1435
CRM 061	12.26	35.60	29.44	1.07	0.024	71.34	4.73	1.57	1405	1430	1460	1490
CRM 062	-	-	-	6.00	-	-	-	-	-	-	-	
CRM 063	19.39	33.15	27.33	1.21	0.016	66.74	4.48	1.45	1280	1300	1320	1356

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CRM 064	35.55	24.92	19.93	1.56	0.057	50.38	3.25	1.13	1340	1370	1400	1450
CRM 065	23.27	24.64	24.24	0.62	0.050	62.82	3.46	1.50	1370	1395	1420	1458

PRODUCT	ASTM ASH%	ASTM VOLATILES (%)	Chlorine	FLOURINE
CRM 039	14.72	18.54	-	-
CRM 042	40.90	21.75	-	-
CRM 046	16.65	20.44	-	142
CRM 048	5.03	2.94	495	58
CRM 049	25.01	19.02	136	153
CRM 050	13.04	27.28	-	295
CRM 053	14.38	-	-	-
CRM 054	22.72	26.05	-	-
CRM 056	33.58	20.32	-	-
CRM 057	30.18	20.07	-	-
CRM 058	15.70	29.03	-	-
CRM 060	19.35	21.19	-	-
CRM 064	35.49	25.46	-	-

Accredited Benzoic acid, traceable to NIST

Available in 1g and 0.5g weights
100 pills per bottle.

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Unit 10, 81 Ceramic Curve , Richards Bay, KZN , South Africa