

ACCREDITED REFERENCE MATERIAL (GA ARM) : CATALOGUE

ACCREDITED TO ISO 17034 : General requirements for the competence of reference material producers.

(Available in 250g units, except GA ARM048, GA ARM 062 which is in 50g units,) (GA ARM042 onwards available in 200g units)

LIST OF SPECIFICATIONS FOR GENERAL ANALYSIS SAMPLES-Version 30/06/2025

PULVERISED COAL LESS THAN 212 μ m, < 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)
GA -ARM 019	64.11	10.30	9.55	3.02	-	-	-	-	-	-	-	-
GA -ARM025	-	-	-	0.59	0.036	-	-	-	-	-	-	-
GA -ARM026	-	-	-	2.10	-	-	-	-	-	-	-	-
GA- ARM 027	-	-	-	0.82	0.015	-	-	-	1350	1375	1405	1430
GA -ARM028	-	-	-	0.94	-	-	-	-	1228	1253	1277	1325
GA ARM029	-	-	-	2.24	-	-	-	-	-	-	-	-
GA- ARM030	-	-	-	1.34	-	-	-	-	1383	1418	1446	1488
GA -ARM034	-	-	-	0.74	-	-	-	-	-	-	-	-
GA- ARM036	13.18	10.03	29.70	2.23	0.091	-	-	-	-	-	-	-
GA- ARM038	15.05	23.53	28.06	0.76	0.079	-	-	-	-	-	-	-

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)
GA- ARM039	14.65	17.89	30.24	1.67	0.040	-	-	-	-	-	-	-
GA- ARM042	40.69	21.43	16.44	0.82	0.061	44.17	2.43	1.03	-	-	-	-
GA ARM045	10.44	27.44	28.79	0.60	0.034	73.35	4.02	1.77	-	-	-	-
GA- ARM046	16.57	20.08	28.65	1.47	0.037	71.40	3.77	1.86	1330	1359	1390	1430
GA- ARM047	23.49	21.72	24.09	0.91	0.093	61.95	3.06	1.45	-	-	-	-
GA- ARM048	4.95	3.07	32.08	0.26	0.017	90.45	1.35	0.95	-	-	-	-
GA- ARM049	25.02	17.98	23.86	0.96	0.053	63.55	2.99	1.39	-	-	-	-
GA- ARM052	23.76	23.19	24.01	0.90	0.030	61.88	3.38	1.49	-	-	-	-
GA- ARM054	22.79	25.23	24.56	0.94	0.037	62.71	3.49	1.52	1400	1420	1455	1500
GA- ARM055	18.80	24.04	25.29	0.55	0.087	66.18	3.57	1.58	-	-	-	-
GA- ARM056	33.46	19.61	20.14	0.99	0.044	52.98	2.93	1.23	-	-	-	-
GA- ARM 058	15.71	28.37	27.42	0.54	0.081	69.09	3.86	1.70	1380	1410	1440	1475
GA- ARM 060	18.98	21.04	27.11	1.56	0.038	68.69	3.67	1.78	1340	1380	1410	1450
GA- ARM 061	12.26	35.60	29.44	1.07	0.024	71.34	4.73	1.57	1405	1430	1460	1490
GA- ARM 062	-	-	-	6.00								
GA-ARM 063	19.49	33.04	27.24	1.21	0.014	66.59	4.41	1.45	1230	1300	1340	1380
GA -ARM 064	35.55	24.92	19.93	1.56	0.057	50.38	3.25	1.13	1340	1370	1400	1450
GA-ARM 065	23.27	24.64	24.24	0.62	0.050	62.82	3.46	1.50	1370	1395	1420	1458

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)
GA -ARM 066	-	-	-	4.39	-	-	-	-	-	-	-	-

PRODUCT	ASTM ASH%	ASTM VOLATILES (%)	Chlorine	FLUORINE
GA- ARM039	14.65	18.57	-	-
GA- ARM042	40.90	21.75	-	-
GA- ARM045	-	-	-	163
GA- ARM046	16.65	20.44	-	142
GA- ARM048	5.03	2.94	607	58
GA- ARM 049	25.24	18.79	-	-
GA- ARM 054	22.72	26.05	-	-
GA- ARM 055	18.90	24.74	-	158
GA- ARM 056	33.46	20.40	-	-
GA- ARM 058	15.70	29.03	-	-
GA- ARM 060	19.35	21.19	-	-
GA- ARM 064	35.49	25.46	-	-

**ASTM Ash, Volatile matter and Quick ash not accredited

**Chlorine /Florine not accredited, and values are indicative

Accredited Benzoic acid pellets, traceable to NIST	Available in 1g and 0.5g weights 100 pills per bottle.
---	---

CONTACT DETAILS

Mail: ravi@coalconcepts.co.za

Phone: +27 35 751 2446 Mobile: +27 83 6500 151

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