

ASCRM, ACIRS & ASTM Coal and Coke Standards
available from **CHOICE ANALYTICAL**

Coal, Coke and Electrode Carbon Standards

Part No.	Description	Unit of Sale
ASRM 010-2	Coal Ash Standard	100g
ASCRM 011-12	Hardgrove Grindability Index Standards (Set of 4) - see ACIRS-H1	NO LONGER AVAILABLE
ASCRM 012A-2	Coal Standard 0.33 % S (see ACIRS-AD-S1A)	NO LONGER AVAILABLE
ASCRM 012B-4	Coal Standard 0.72 % S (see ACIRS-AD-S1B)	NO LONGER AVAILABLE
ASCRM 012C-3	Coal Standard 1.22 % S (see ACIRS-AD-S1C)	NO LONGER AVAILABLE
ASCRM 012D-2	Coal Standard 5.21 % S	125g
ASCRM 013-12	Coal Standard 013-12 (see ACIRS-G3)	NO LONGER AVAILABLE
ASCRM 014	Coke Standard (see Page 2 for certified values)	200g
ASRM 015	Coal Relative Density Standard	250g
ASCRM 003-2	Electrode Carbon (see ACIRS-EC)	NO LONGER AVAILABLE
90-9300-10	ASTM Hardgrove Grindability Index Standards (Set of 4)	4 x 1kg
ACIRS-H1	Hardgrove Grindability Index Standard (HGI Values: 26, 49, 69, 94)	4 x 2kg
ACIRS-G3	General Coal Reference Standard (see below for certified values)	NO LONGER AVAILABLE
ACIRS-EC-2011	Electrode Carbon (Gray-King coke test)	1kg
ACIRS-AD-S1A	Coal Standard 0.42% Sulphur	250g
ACIRS-AD-S1B	Coal Standard 0.71% Sulphur	250g
ACIRS-AD-S1C	Coal Standard 1.46% Sulphur	250g
ACIRS-AD-S1D	Coal Standard 2.47% Sulphur	250g

Certified Analytical Values for General Coal Standard ACIRS-G3-2010

Determination	Mean	Standard Deviation
Ash	10.16% dry basis	0.081
Volatile matter	20.65% dry basis	0.166
Total carbon	79.87% dry basis	0.162
Hydrogen	4.47% dry basis	0.073
Nitrogen	1.80% dry basis	0.033
Total Sulfur	0.598% dry basis	0.014
Pyritic Sulfur (indicative value)	0.074% dry basis	0.020
Sulfate Sulfur (indicative value)	0.010% dry basis	0.003
Chlorine	0.050% dry basis	0.003
Phosphorus	0.035% dry basis	0.002
Carbonate Carbon	0.055% dry basis	0.009
Relative density (dry basis)	1.38	0.014
Gross calorific value	32.55 MJ/kg dry basis	0.126



**** Certified Analytical Values for Coke ASCRM 014**

Determination	Mean	Standard Deviation
Ash	12.23% dry basis	0.086
Volatile matter	1.04% dry basis	0.192
Total carbon	85.65% dry basis	0.275
Hydrogen	0.32% dry basis	0.024
Nitrogen	0.82% dry basis	0.285
Total sulfur	0.314% dry basis	0.017
Phosphorus	0.09% dry basis	0.004
Gross calorific value (MJ/kg dry basis)	28.26	0.326
Relative density (dry basis)	1.87	0.053

NOTES:

1. A list of the participating laboratories is included in the report.
 2. All coke samples oxidize with time and their composition, as determined by analysis, changes. Efforts have been made to stabilize ASCRM 014 to minimize such changes.
 3. To minimize the risk of compositional change, the container lid should be kept tightly sealed and the coke sample stored in a cool, dark place.
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