

DELAWARE CITY FLUID COKE



Premium Sponge

Del City Coke

Fluid Coke

	Premium Sponge	Del City Coke	Fluid Coke
Angle of repose	38 deg	55.7 deg	20 deg
Stockpile	Roads and ramps yes	Roads and ramps yes	No
Grab loading	Yes	Yes with good seal	No

Contact: info@macdex.com for more information

DELAWARE CITY FLUID COKE



DELAWARE CITY FLUID COKE



FOR GUIDANCE PURPOSES ONLY
NOT TO BE CONSTRUED AS A GUARANTEE

August 4, 2011

CERTIFICATE OF ANALYSIS

Reference: Vessel: "NIKOL H"
Bill of Lading Date: July 29, 2011
Shipper's ID - Cargo Description: 17266.940 Metric Tons of Fluid Petroleum Coke in Bulk
Place of Inspection: Port of Wilmington, Wilmington, DE
Order Number: 4500087562.40
Date of Sampling: July 28-29, 2011
SGS Reference Number: 231-13421-B

As instructed, SGS collected samples for the above referenced cargo and analyzed the samples in accordance with the test methods indicated. SGS North America Inc is accredited in accordance with ISO 17025.

SGS manually sampled during the loading of the M/V NIKOL H at the Port of Wilmington, Wilmington, DE US. The samples were collected systematically throughout the loading of the cargo on July 28-29, 2011. Accordingly, we report the following cargo composite results.

<u>Proximate Analysis</u>	<u>Test Method</u>	<u>As Received</u>	<u>Dry Basis</u>
Total Moisture	D 3302	9.70	--- %
Ash Content	D 3174	0.35	0.39 %
Volatile Matter	D 3175	5.97	6.61 %
Fixed Carbon	D 3172 (by difference)	83.98	93.00 %
Sulfur Content	D 4239	5.23	5.80 %
Gross Calorific Value	D 5865	12922	14310 Btu/lb
	D 5865	7179	7950 Kcal/kg
<u>Net Calorific Value</u> (at constant pressure)	D 5865	12666	14139 Btu/lb
		7037	7855 Kcal/kg
<u>Hardgrove Index</u>	ISO 5074 / D 409	35 points at 2.50 % moisture	

SGS North America Inc.
Minerals Services Division

William McDonough
Baltimore Area Operations

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<u>Ultimate Analysis</u>	<u>Test Method</u>	<u>As Received</u>	<u>Dry Basis</u>
Inherent Moisture	D 3173	1.99	xxx %
Total Moisture	D 3302	9.70	xxx %
Carbon Content	D 5373	80.73	89.40 %
Hydrogen Content	D 5373	1.48	1.64 %
Nitrogen Content	D 5373	1.70	1.88 %
Ash Content	D 3174	0.35	0.39 %
Sulfur Content	D 4239 (Method B)	5.23	5.80 %
Oxygen	ISO 17247 (By Difference)	0.81	0.89 %
Chlorine	D 6721	0.009	0.01 %

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PORT OF WILMINGTON

Wilmington, Delaware

NOTE: Load Port details are without guarantee. For the most current information please contact one of the local agents below.

- **Max Volume:** 41,000 MTs
- **Typical Loading Rate:** 7,000 MTs/day
- **Draft Alongside:** 38 ft – MLW FW
- **Max Sailing Draft:** 38 ft – MLW FW
- **Vessel LOA Max:** 923 ft
- **Vessel BEAM Max:** 145 ft

HARBOR MASTER: Bobby - 302-545-8591

AGENTS:

Mr. Will Schmidt

T. Parker Host of Delaware, Inc.
1 Hausel Road, Suite 208
Wilmington, DE 19801
Tel: 302-654-2240
Fax: 302-654-2256
Cell: 302-559-7929
Email (private): wschmidt@tparkerhost.com
Email (general): deops@tparkerhost.com

Mr. Jim Cooney

Capes Shipping Agencies
603 Christiana Avenue
Wilmington, DE 19801
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Email: capesde@capesshipping.net

Mr. Jerome O'Neill

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Mr. Bob Keeney

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