



## Certificate of Certified Reference Material

NCS FC 28132a

Coke

Issued in 2013

Approved by China National Analysis Center for Iron and Steel

( Beijing China )

## Certified Values and Uncertainty

No.		Sulfur(%)	Ash(%)	Phosphorous(%)	Volatile matter(%)	Calorific Value(MJ/kg)
NCS FC	Certified Value	0.50	12.26	0.030	1.40	29.16
28132a	Uncertainty	0.03	0.20	0.004	0.30	0.18

Note:

1. Each certified value is the mean of analytical results of 8 independent laboratories.

The values are dry bases, calorific value is high value of dry bases. Uncertainty is expanded uncertainty.

2. The sample is powder with size less 0.180 mm packed in glass bottle.

The minimum package is 50 grams.

3. The sample should be stored at dry, clean, cool and dark place.

4. The minimum weight for analysis sulfur is 50 mg, for Ash, P, volatile matter is 1.0 g.

5. The certification will expire in 2017, although we reserve the right to make change as issue revisions.

### Analytical Methods

Item	Analytical method
Sulfur	Gravimetric method; High temperature combustion method
Ash and Volatile	Gravimetric method
Phosphorous	Reduction- phosphomolybdate photometric method
Calorific Value	Oxygen bomb calorimetric method



**Jia Yunhai**

**Laboratory Director**