

Certificate of Certified Reference Materials

NCS DC 14021b

Dolomite

Issued in 2013

Approved by China National Analysis Center for Iron and Steel

( Beijing China )

## Certified Values and Standard Deviation (%)

No.		SiO <sub>2</sub>	CaO	MgO	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MnO	P
NCS DC	Certified Values	1.30	34.82	17.34	0.18	0.447	0.0072	0.0057
14021b	Standard Deviation	0.03	0.08	0.07	0.01	0.005	0.0005	0.0003
No.		S	L.O.I	Na <sub>2</sub> O	K <sub>2</sub> O	Ti	Sr	
NCS DC	Certified Values	0.009	45.37	0.019	0.027	0.085	0.021	
14021b	Standard Deviation	0.001	0.08	0.001	0.001	0.002	0.001	

Note: 1. Each certified value is the mean of analytical results of 9 independent laboratories.

2. The sample is powder with size less 0.088mm packed in glass bottle.

The minimum package is 50 grams. The minimum weight for analysis is 0.2g.

3. The sample should be dried at 105±5 °C before using.

4. The sample should be stored at dry place.

## Analytical Methods

SiO<sub>2</sub>: Molybdenum blue photometric method; ICP-AES;

The perchloric acid dehydration-gravimetric method

Al<sub>2</sub>O<sub>3</sub>: EDTA titrimetric method, ICP-AES, The chrome azuol S photometric method

CaO: EGTA-CyTA titrimetric method, EDTA titrimetric method

MgO: EGTA-CyTA titrimetric method, EDTA titrimetric method

Fe<sub>2</sub>O<sub>3</sub>: Orthophenanthroline photometric method; Flame atomic absorption spectrometry; ICP-AES.

MnO: Potassium periodate oxidation photometric method, ICP-AES

P: Extraction molybdenum blue photometric method, ICP-AES

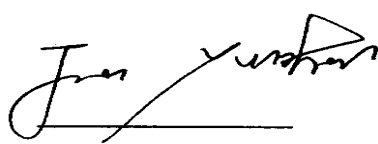
S: Combustion-infrared absorption method; The combustion-potassium iodate titrimetric method

K<sub>2</sub>O, Na<sub>2</sub>O: AAS, ICP-AES

Ti: Diantipyrylmethane photometric method; ICP-AES

Sr: AAS, ICP-AES

L.O.I: Gravimetric method



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