

Certificate of Certified Reference Materials

NCS DC 14018b

Dolomite

Reissued in 2022

Approved by China National Analysis Center for Iron and Steel

(Beijing China)

Certified Values and Standard Deviation (%)

No.		SiO ₂	CaO	MgO	Al ₂ O ₃	Fe ₂ O ₃	MnO	P
NCS DC	Certified Values	0.77	31.96	19.92	0.23	0.269	0.031	0.0023
14018b	Standard Deviation	0.03	0.09	0.07	0.01	0.004	0.001	0.0002
No.		S	L.O.I	Na ₂ O	K ₂ O	Ti	Sr	
NCS DC	Certified Values	0.010	46.24	0.033	0.030	0.011	0.0081	
14018b	Standard Deviation	0.001	0.09	0.001	0.001	0.001	0.0010	

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 70 grams. The minimum weight for analysis is 0.2g.

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

4. The valid time of the sample is 10 years, although we reserve the right to make change as issue revisions

Analytical Methods

SiO₂: Molybdenum blue photometric method; ICP-AES;

The perchloric acid dehydration-gravimetric method

Al₂O₃: 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

Fe₂O₃: 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

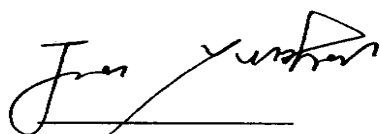
S: Combustion-infrared absorption method; The combustion-potassium iodate titrimetric method

K₂O, Na₂O: AAS, ICP-AES

Ti: Diantipyrylmethane photometric method; ICP-AES

Sr: AAS, ICP-AES

L.O.I: Gravimetric method



Jia Yunhai

Laboratory Director