

Certificate of Certified Reference Material

NCS DC 62123

Sulphoaluminate Cement Clinker

Reissued in 2015

Approved by China National Analysis Center for Iron and Steel

( Beijing China )

## Certified Values and Standard Deviation

( % )

No.		SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	MgO	SO <sub>3</sub>	K <sub>2</sub> O	Na <sub>2</sub> O	L.O.I
NCS DC	Certified Value	8.56	32.60	2.21	1.51	43.40	1.37	9.55	0.22	0.09	0.41
62123	Standard Deviation	0.08	0.12	0.09	0.08	0.12	0.11	0.06	0.03	0.02	0.07

Note:

1. Each certified value is the mean of analytical results of 10 independent laboratories.
2. The sample is powder with size less 0.08mm packed in plastic bottle.  
The minimum package is 20 grams. The minimum weight for analysis is 0.1g.
3. The sample should be stored in drier after opening. The valid time for opened sample is 1 year.
4. The certification will expire in Aug., 2021, although we reserve the right to make change as issue revisions.

## Analytical Methods

Composition	Analytical method
SiO <sub>2</sub>	Colorimetric method; Potassium silicofluoride volumetric method
Al <sub>2</sub> O <sub>3</sub>	EDTA direct titrimetric method; Titrimetric method
Fe <sub>2</sub> O <sub>3</sub>	EDTA direct titrimetric method; Colorimetric method
TiO <sub>2</sub>	EDTA direct titrimetric method; Colorimetric method
CaO	EDTA direct titrimetric method; Permanganate titrimetric method
MgO	Titrimetric method; Atomic absorption spectrometric method
SO <sub>3</sub>	Barium sulfate gravimetric method; Ion exchange method
K <sub>2</sub> O	Atomic absorption spectrometric method; Flame photometric method
Na <sub>2</sub> O	Atomic absorption spectrometric method; Flame photometric method
L.O.I	Gravimetric method



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