

Certificate of Certified Reference Material

NCS DC 60127— NCS DC 60128

Pyrophyllite

Reissued in 2005

Approved by China National Analysis Center for Iron and Steel

(Beijing China)

Certified Values and Standard Deviation

(%)

No.		SiO ₂	Al ₂ O ₃	TFe ₂ O ₃	CaO	MgO	K ₂ O	Na ₂ O	TiO ₂	P ₂ O ₅	MnO	SO ₃	H ₂ O ⁺	L.O.I
NCS DC	Certified Value	66.84	23.58	1.94	0.17	0.087	0.38	0.34	0.70	0.20	0.0037	0.61	4.15	5.48
60127	Standard Deviation	0.13	0.14	0.04	0.02	0.011	0.03	0.03	0.06	0.02	0.0011	0.06	0.14	0.07
NCS DC	Certified Value	70.34	22.20	0.22	0.066	0.041	0.028	0.043	0.18	0.11	0.0040	0.17	5.57	6.34
60128	Standard Deviation	0.16	0.17	0.02	0.019	0.007	0.006	0.005	0.02	0.02	0.0013	0.02	0.11	0.05

Note:

1. Each certified value is the mean of analytical results of 8 independent laboratories.
2. The sample is powder packed in glass bottle. The minimum package is 50 grams.
3. The sample should be stored at dry place.

Analytical Methods

Composition	Analytical method
SiO ₂	Dehydration-gravimetric method; Potassium silicofluoride volumetric method; X-ray fluorescence analytical method
Al ₂ O ₃	Gravimetric method; EDTA titrimetric method; X-ray fluorescence analytical method
Fe ₂ O ₃	Colorimetric method with sulfo-salicylic acid; X-ray fluorescence analytical method; Atomic absorption method
TiO ₂	Colorimetric method with diantipylmethane; X-ray fluorescence analytical method; Colorimetric method
CaO	EDTA titrimetric method; Atomic absorption method; X-ray fluorescence analytical method
MgO	EDTA titrimetric method; Atomic absorption method; X-ray fluorescence analytical method
K ₂ O, Na ₂ O	Flame photometric method; Atomic absorption method; X-ray fluorescence analytical method
MnO	Colorimetric method with potassium periodate; Atomic absorption method; X-ray fluorescence analytical method
P ₂ O ₅	X-ray fluorescence analytical method; Inductively coupled plasma emission spectrometry; Molybdovanadophosphate sepectrophotometry
H ₂ O ⁺	Penfield method
L. O. I.	Gravimetric method
SO ₃	Combustion-iodimetric method; Barium sulfate gravimetric method; Ion chrometographic method



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