

Sample name	Principal mineral	Structure type	Subtype	Origin
BSG	Borosilicate glass	Amorphous	n/a	Duke Standards
Elftex124	Carbon black	Sheet graphite	n/a	Cabot
Ortho1	Orthoclase	Framework silicate	Feldspar	Geo Supplies
Plag1	Plagioclase	Framework silicate	Feldspar	Geo Supplies
KGa-1b	Kaolinite (low defect)	Sheet silicate	1 : 1 layer clay	CMS
KGa-2	Kaolinite (high defect)	Sheet silicate	1 : 1 layer clay	CMS
STx-1b	Ca-montmorillonite	Sheet silicate	2 : 1 layer clay	CMS
SWy-3	Na-montmorillonite	Sheet silicate	2 : 1 layer clay	CMS
IMt-2	Illite	Sheet silicate	2 : 1 layer clay	CMS
ISCz-1	Illite–smectite mix	Sheet silicate	Mixed-layer clay	CMS
Illite NX	Illite	Sheet silicate	2 : 1 Layer clay	B+M Nottenkamper