



US Geological Survey Minerals

Library Listing – 78 spectra

This library features spectra of carefully characterized minerals. It represents a group of naturally occurring minerals of interest in geological investigations.

The US Geological Survey Minerals Library includes 78 spectra of carefully characterized minerals collected by the US Geological Survey. Most samples were from the Smithsonian National Museum of Natural History. The rest were from the Hunt and Salisbury collection in Denver and a variety of other sources. Most of the minerals represented in the library are silicates.

The library includes four spectral reference files of each mineral:

- Reflectance spectrum of a 0 – 74 micron particle size sample
- Reflectance spectrum of a 74 – 250 micron particle size sample
- Reflectance spectrum of a solid sample
- Transmittance spectrum



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2	Acmite	41	Montmorillonite (<25m)
1	Acmite	40	Montmorillonite (<25m)
3	Albite	42	Montmorillonite <25m
5	Alunite	43	Muscovite
4	Alunite; Ammonioalunite	44	Nontronite
6	Alunite; Potassuim alunite, synthetic	45	Olivine (F011)
7	Alunite; Sodium alunite, synthetic	46	Olivine (F018)
8	Andalusite	47	Olivine (F029)
9	Andradite	48	Olivine (F041)
10	Anorthite	49	Olivine (F051)
11	Antigorite	50	Olivine (F060)
13	Augite	51	Olivine (F066)
12	Augite	52	Olivine (F088)
15	Beryl	53	Olivine (F088)
14	Beryl	54	Olivine (F091)
16	Bustamite	55	Olivine (FO92)
17	Calcite	56	Orthoclase; Moonstone
19	Clinochlore	57	Pectolite
18	Clinochlore	58	Phlogopite
20	Cordierite	59	Pyrophyllite
21	Diopside	61	Quartz
22	Diopside	60	Quartz
23	Enstatite	62	Rhodonite
24	Epidote	63	Richterite
25	Grossular	64	Riebeckite
26	Gypsum; Alabaster	66	Sanidine
27	Hedenbergite	65	Sanidine
28	Hemimorphite	67	Saponite
30	Hornblende	68	Sepiolite
29	Hornblende	69	Smectite
31	Hornblende; Magnesian	70	Spessartine
32	Hyperthsene	71	Spodumene
33	Illite	72	Talc
34	Illite/smectite (35% illite layers)	74	Tourmaline
35	Kaolinite (poorly crystallized)	73	Tourmaline; Elbaite
36	Kaolinite (well crystallized)	76	Tremolite
37	Kyanite	75	Tremolite
38	Laboradorite	77	Vermiculite
39	Microcline	78	Wollastonite