



Commercial Materials

Library Listing – 212 spectra

This is a four library set with material-specific collections of commercial interest. It includes spectra of minerals, polypropylene additives, explosives and epoxies.

The Commercial Materials Library contains 212 spectra divided into four material specific segments. The four libraries are:

- •Epoxy Resins
 - ✓ 48 spectra identified by trade name
- •Explosives
 - ✓ 18 spectra (14 explosives, 4 non-explosives) collected by the Georgia State Crime Lab
- •Minerals
 - ✓ 56 spectra collected by Professor Paul Painter of Pennsylvania State University
- •Polypropylene Additives
 - ✓ 90 spectra of polypropylene additives, solvents and other materials identified by trade name



Commercial Materials Painter Minerals

<u>Index</u>	<u>Compound Name</u>	<u>Index</u>	<u>Compound Name</u>
53	Analcime #1, 0.086 wt %	26	Kaolinite #7, 0.045 wt %
3	Ankerite #1, 0.079 wt %	25	Kaolinite #8, 0.045 wt %
7	Ankerite #2, 0.240 wt %	37	Kaolite #4, 0.049 wt %
10	Aragonite #1, 0.088 wt %	56	Magnesite
20	Attapulgit #1, 0.074 wt %	16	Magnesite #1, 0.199 wt %
43	Attapurgite #46	52	MgSO ₄ .7H ₂ O, heated @ 110 C 24 hr.
13	Calcite #1, 0.053 wt %	21	Mica #1 (Biotite), 0.081 wt %
36	Chlorite #1, 0.219 wt %	48	Microcline, KALSI308
47	Dickite #16	27	Mixed layer clay #1, 0.075 wt %
6	Dolomite #1, 0.269 wt %	1	Montmorillonite #1, 0.099 wt %
12	Dolomite #2, 0.292 wt %	8	Montmorillonite #2, 0.101 wt %
29	Dolomite #3, 0.228 wt %	35	Montmorillonite #3 (beset), 0.096 wt %
22	Dolomite #6, 0.071 wt %	44	Montmorillonite #31
30	Dolomite #7, 0.071 wt %	39	Montmorillonite #4, 0.098 wt %
49	Dolomite, Freemont, Colorado	38	Montmorillonite #5 (Bentonite)
45	Dolomite, Hoxie, Arkansas	33	Montmorillonite #6 (oxidized), 0.09 wt %
14	Feldspar #1 (Albite), 0.129 wt %	24	Montmorillonite #7, 0.088 wt %
54	Gypsum	5	Quartz #1, 0.163 wt %
41	Gypsum #1, 0.333 wt %	51	Quartz #2 (crystal), 0.055 wt %
19	Halloysite #1, 0.042 wt %	17	Rhodochrosite #1, 0.219 wt %
15	Halloysite #2, 0.045 wt %	55	Rhodochrosite
42	Halloysite #3, 0.100 wt %	34	Siderite #1, 0.057 wt %
9	Illite #1, 0.063 wt %	40	Sodium carbonate #1, 0.231 wt %
31	Illite #2, 0.047 wt %	28	Sodium montmorillonite #1, 0.081 wt %
2	Kaolinite #1, 0.041 wt %	46	Sodium nitrate #1, 0.004 wt %
4	Kaolinite #2 (disordered), 0.048 wt %	18	Strontianite #1, 0.224 wt %
11	Kaolinite #3, 0.056 wt %	50	Travertine #1, 0.064 wt %
32	Kaolinite #5, 0.047 wt %		
23	Kaolinite #6, 0.049 wt %		