

MINERALS

MINERAUX SUR TIMBRES

Liste par pays

MINERAUX SUR TIMBRES

MINERALS ON STAMPS

MINERALS ON STAMPS

List by country

Alan DEAN

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REMARQUES

Les listes des échantillons minéraux sont complètes au 31 août 1983 mais ne contiennent pas les pierres précieuses ni les timbres en rapport avec l'industrie minière.

Dans la première liste, les timbres sont classés par pays émetteurs, par ordre alphabétique. Pour chaque timbre on a indiqué le numéro du catalogue Scott, la date d'émission, la valeur faciale, le nom du spécimen et la composition chimique.

La seconde liste regroupe tous les timbres représentant un échantillon minéral donné. Le nom de l'échantillon est donné à gauche en anglais, à droite en français tandis que la composition chimique est décrite au milieu. Au-dessous on a donné, pour chaque timbre, le nom du pays émetteur et le numéro de catalogue.

NOTE

The lists of mineral specimens are complete up to August 31st, 1983. Stamps representing gemstones or those related to the mining industry are not included.

In the first list, the stamps are sorted by alphabetical order according to the issuing country. For each stamp, the Scott number, the date of issue, the face value, the name of the specimen and its chemical formula are given.

All the stamps showing given mineral specimens are grouped together. On the first line the specimen's name is given at left in English, at right in French while the chemical composition is indicated in the middle. On the following line the name of the issuing country and the catalog number are listed.

MINERAUX SUR TIMBRES

Liste par pays



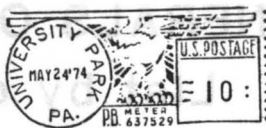
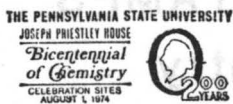
MINERALS ON STAMPS

List by country



Exemples d'obliterations en rapport avec la chimie

Samples of chemistry related cancellations



AFARS AND ISSAS

349	22.11.1971	10 f	Doleritic basalt (slab)
350	8.10.1971	15 f	Olivine basalt (slab) (Mg,Fe) ₂ [SiO ₄]
351	26.04.1971	25 f	Geode (spec)
352	25.01.1971	40 f	Diabase, basalt (slab)
C101	5.10.1974	85 f	Crystallized wood (spec)

ALGERIE

710	21.04.1983	0.70 d	Gypsum, sand rose (spec) CaSO ₄ ·2H ₂ O
711	21.04.1983	0.80 d	Agate (spec) SiO ₂
712	21.04.1983	1.20 d	Halite, massive (spec) NaCl
713	21.04.1983	2.40 d	Fluorite (spec) CaF ₂

ANGOLA

552	31.10.1970	1.00 e	Iron, meteorite (spec) Fe
553	31.10.1970	1.50 e	Dioptase (spec) Cu ₆ [Si ₆ O ₁₈]·6H ₂ O
559	31.10.1970	4.50 e	Mica, muscovite (spec) KAl ₂ [AlSi ₃ O ₁₀](OH,F) ₂
560	31.10.1970	5.00 e	Barite (spec) BaSO ₄

AUSTRALIA

558	11.07.1973	6 c	Chrysoprase (spec) SiO_2
559	11.07.1973	7 c	Agate (spec) SiO_2
560	11.07.1973	8 c	Opal (spec) $\text{SiO}_2 \cdot n\text{H}_2\text{O}$
561	11.07.1973	9 c	Rhodonite (spec) $\text{CaMn}_4[\text{Si}_5\text{O}_{15}]$
562	16.10.1973	10 c	Sapphire (spec) Al_2O_3
580	16.10.1973	9c/8c	Opal (spec) $\text{SiO}_2 \cdot n\text{H}_2\text{O}$

BOTSWANA

61	20.03.1970	35 c	Diamonds (spec) C
114	1.07.1974	1 c	Amethyst, Botswana pink (spec) SiO_2
115	1.07.1974	2 c	Agate (spec) SiO_2
116	1.07.1974	3 c	Quartz (spec) SiO_2
117	1.07.1974	4 c	Niccolite (spec) SiO_2
118	1.07.1974	5 c	Moss agate (spec) SiO_2
119	1.07.1974	7 c	Banded agate (spec) SiO_2
120	1.07.1974	10 c	Stilbite (spec) $\text{Ca}[\text{Al}_2\text{Si}_7\text{O}_{18}] \cdot 7\text{H}_2\text{O}$
121	1.07.1974	15 c	Banded marble CaCO_3
122	1.07.1974	20 c	Diamonds, rough C
123	1.07.1974	25 c	Chrysotile (spec) $\text{Mg}_6[(\text{OH})_8 \text{Si}_4\text{O}_{10}]$
124	1.07.1974	35 c	Banded Jasper (spec) SiO_2
125	1.07.1974	50 c	Moss quartz (spec) SiO_2
126	1.07.1974	1.00 R	Citrine (spec) SiO_2
127	1.07.1974	2.00 R	Chalcopyrite (spec) CuFeS_2

BOTSWANA (continued)

155	20.08.1976	1 t	Amethyst, Botswana pink (spec) SiO_2
156	20.08.1976	2 t	Agate (spec) SiO_2
157	20.08.1976	3 t	Quartz (spec) SiO_2
158	20.08.1976	4 t	Niccolite (spec) NiAs
159	20.08.1976	5 t	Moss agate (spec) SiO_2
160	20.08.1976	7 t	Banded agate (spec) SiO_2
161	20.08.1976	10 t	Stilbite (spec) $\text{Ca}[\text{Al}_2\text{Si}_7\text{O}_{18}]\cdot 7\text{H}_2\text{O}$
162	20.08.1976	15 t	Banded marble CaCO_3
163	20.08.1976	20 t	Diamonds, rough C
164	20.08.1976	25 t	Chrysotile (spec) $\text{Mg}_6[\text{(OH)}_8[\text{Si}_4\text{O}_{10}]$
165	20.08.1976	35 t	Banded Jasper (spec) SiO_2
166	20.08.1976	50 t	Moss quartz (spec) SiO_2
167	20.08.1976	1.00 P	Citrine (spec) SiO_2
168	20.08.1976	2.00 P	Chalcopyrite (spec) CuFeS_2

CZECHOSLOVAKIA

1561	8.08.1968	80 h	Agate (spec) SiO_2
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CYPRUS

596	3.05.1983	200 m	Copper (spec) Cu
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CHINA (Peoples Republic)

1799	25.08.1982	4 f	Orpiment (spec) As_2S_3
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1800	25.08.1982	8 f	Stibnite (spec) Sb_2S_3
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1801	25.08.1982	10 f	Cinnabar (spec) HgS
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1802	25.08.1982	20 f	Wolframite (spec) $(\text{Fe}, \text{Mn})[\text{WO}_4]$
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COLOMBIA

808	16.06.1972	1.10 p	Emerald (spec) $\text{Al}_2[\text{Be}_3\text{Si}_6\text{O}_{18}]$
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CONGO

634	2.05.1969	6.00 k	Copper (spec) Cu
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636	2.05.1969	9.80 k	Diamond (spec) C
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CONGO (Republic)

C94	20.03.1970	100 f	Aurichalcite (spec) $(\text{Zn,Cu})_5[\text{(OH)}_3 \text{CO}_3]_2$
C95	20.03.1970	150 f	Diopside (spec) $\text{Ca}[\text{Si}_6\text{O}_{18}]\cdot 6\text{H}_2\text{O}$

CUBA

-	15.03.1975	30 c	Nickel (spec) Ni
-	15.03.1975	13 c	Copper (spec) Cu
-	15.03.1975	30 c	Chromite (spec) FeCr_2O_4

FIJI

253	15.07.1968	4/-	Gold, native Au
273	15.01.1969	40 c	Gold, native Au

GABON

C117	20.07.1971	85 f	Uranium
C118	20.07.1971	90 f	Manganese
529f	12.03.1983	125 f	Manganese

GERMANY (DDR)

798	11.11.1965	20 pf	Proustite Ag_3AsS_3
799	11.11.1965	25 pf	Sulphur S
1105	21.05.1969	5 pf	Erythrite $(\text{Co}, \text{Ni})_3[\text{AsO}_4]_2 \cdot 8\text{H}_2\text{O}$
1106	21.05.1969	10 pf	Fluorite CaF_2
1107	21.05.1969	15 pf	Galena PbS
1108	21.05.1969	20 pf	Quartz, smoky SiO_2
1109	21.05.1969	25 pf	Calcite CaCO_3
1110	21.05.1969	50 pf	Silver, native Ag
1354	22.02.1972	5 pf	Gypsum $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
1355	22.02.1972	10 pf	Zinnwaldite $(\text{K}, \text{Li}, \text{Fe}, \text{Al})[\text{AlSi}_3\text{O}_{10}](\text{F}, \text{OH})_2$
1356	22.02.1972	20 pf	Malachite $\text{Cu}_2(\text{OH})_2[\text{CO}_3]$
1357	22.02.1972	25 pf	Amethyst SiO_2
1358	22.02.1972	35 pf	Halite NaCl
1359	22.02.1972	50 pf	Proustite Ag_3AsS_3

GERMANY (DDR), continued

1604	17.12.1974	10 pf	Jasper $\text{NaAlSi}_2\text{O}_6$
1607	17.12.1974	25 pf	Amethyst SiO_2
1609	17.12.1974	70 pf	Agate, geode SiO_2
1960	24.10.1978	25 pf	Agate SiO_2

GERMANY (FRG)

979	12.01.1968	20 pf	Zinc and lead sulphides ZnS , PbS
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GHANA

824	14.03.1983	80 p	Iron ore, bauxite Gold, diamond
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GREECE

1367	22.09.1980	6 d	Chrysotile $\text{Mg}_6[(\text{OH})_8 \text{Si}_4\text{O}_{10}]$
1368	22.09.1980	8 d	Gypsum $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
1369	22.09.1980	10 d	Copper, native Cu
1370	22.09.1980	14 d	Barite BaSO_4
1371	22.09.1980	18 d	Chromite FeCr_2O_4
1372	22.09.1980	20 d	Sphalerite, galena, pyrite ZnS , PbS , FeS_2
1373	22.09.1980	30 d	Bauxite

GREENLAND

122	20.01.1978	1.20 k	Iron, meteorite Fe
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HUNGARY

1991	21.09.1969	60 f	Greenockite, calcite, sphalerite CdS, CaCO ₃ , ZnS
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1993	21.09.1969	1.20 ft	Quartz SiO ₂
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1995	21.09.1969	3.00 ft	Copper, native Cu
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1996	21.09.1969	5.00 ft	Cuprite Cu ₂ O
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ISRAEL

795	29.12.1981	2.50 s	Copper, ore
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797	29.12.1981	7.00 s	Emerald Al ₂ [Be ₃ Si ₆ O ₁₈]
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JUGOSLAVIA

1498	10.09.1980	2.50 d	Pyrrhotite Fe _(1-x) S
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1499	10.09.1980	3.40 d	Dolomite Ca Mg[CO ₃] ₂
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1500	10.09.1980	4.90 d	Sphalerite ZnS
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1501	10.09.1980	13.00 d	Wulfenite Pb[MoO ₄]
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KENYA

98	13.12.1977	10 c	Gypsum $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
99	13.12.1977	20 c	Trona $\text{Na}_3\text{H}[\text{CO}_3]_2 \cdot 2\text{H}_2\text{O}$
100	13.12.1977	30 c	Kyanite $\text{Al}_2[\text{O} \text{SiO}_4]$
101	13.12.1977	40 c	Amazonite KAlSi_3O_8
102	13.12.1977	50 c	Galena PbS
103	13.12.1977	70 c	Silicified wood
104	13.12.1977	80 c	Fluorite CaF_2
105	13.12.1977	1/-	Amethyst SiO_2
106	13.12.1977	1/50	Agate SiO_2
107	13.12.1977	2/-	Tourmaline $(\text{Na}, \text{Ca})(\text{Li}, \text{Mg}, \text{Fe}, \text{Al})_3(\text{Al}, \text{Fe})_6$ $[\text{B}_3\text{Si}_6\text{O}_{27}](\text{O}, \text{OH}, \text{F})_4$
108	13.12.1977	3/-	Beryl, aquamarine $\text{Al}_2[\text{Be}_3\text{Si}_6\text{O}_{18}]$
109	13.12.1977	5/-	Garnet, rhodolite $(\text{Ca}, \text{Mg})_3(\text{Fe}, \text{Al})_2[\text{SiO}_4]_3$
110	13.12.1977	10/-	Corundum, sapphire Al_2O_3
111	13.12.1977	20/-	Corundum, ruby Al_2O_3
112	13.12.1977	40/-	Garnet, grossular $\text{Ca}_3\text{Al}_2[\text{SiO}_4]_3$

LESOTHO

148	1.10.1973	15 c	Kimberlite with rough diamond C
202	2.06.1976	5 c	Diamond, rough C

MADAGASCAR

440	28.04.1970	5 f	Agate, Carnelian SiO_2
441	1971	12 f	Calcite CaCO_3
442	1971	15 f	Quartz SiO_2
508	27.09.1974	4 f	Marble CaCO_3
550	5.07.1976	25 f	Aragonite CaCO_3
551	5.07.1976	50 f	Silicified wood
552	5.07.1976	150 f	Celestite SrSO_4

MALAWI

370	20.08.1980	5 t	Agate SiO_2
371	20.08.1980	10 t	Plagioclase feldspar $(\text{Na,Ca})[\text{AlSi}_3\text{O}_8]$
372	20.08.1980	20 t	Quartz, smoky SiO_2
373	20.08.1980	1.00 k	Kyanite $\text{Al}_2[\text{O} \text{SiO}_4]$

MOROCCO

313	30.04.1974	25 f	Vanadinite $\text{Pb}_5[\text{Cl} (\text{VO}_4)_3]$
314	30.04.1974	70 f	Erythrite $(\text{Co}, \text{Ni})_3[\text{AsO}_4]_2 \cdot 8\text{H}_2\text{O}$
313a	14.02.1975	50 f	Aragonite CaCO_3
314a	14.02.1975	1.00 D	Agate SiO_2
457	19.06.1980	40 f	Gypsum $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
477	19.02.1981	40 f	Onyx SiO_2
478	19.02.1981	1.00 D	Malachite, azurite $\text{Cu}_2(\text{OH})_2[\text{CO}_3], \text{Cu}_3(\text{OH})(\text{CO}_3)_2$

MOZAMBIQUE

496	15.01.1971	1.00 e	Stibiôtantalite SbTaO_4
497	15.01.1971	1.50 e	Beryl $\text{Al}_2[\text{Be}_3\text{Si}_6\text{O}_{18}]$
499	15.01.1971	3.00 e	Tantalocolumbite $(\text{Fe}, \text{Mn})(\text{Ta}, \text{Nb})_2\text{O}_6$
500	15.01.1971	3.50 e	Verdelite (Tourmaline) $(\text{Na}, \text{Ca})(\text{Li}, \text{Mg}, \text{Fe}, \text{Al})_3(\text{Al}, \text{Fe})_6-[\text{B}_3\text{Si}_6\text{O}_{27}](\text{O}, \text{OH}, \text{F})_4$
501	15.01.1971	4.00 e	Zircon ZrSiO_4
502	15.01.1971	10.00 e	Silicified wood
524	25.06.1975	3.50 e	Verdelite (Tourmaline) $(\text{Na}, \text{Ca})(\text{Li}, \text{Hg}, \text{Fe}, \text{Al})_3(\text{Al}, \text{Fe})_6-[\text{B}_3\text{Si}_6\text{O}_{27}](\text{O}, \text{OH}, \text{F})_4$
528	25.06.1975	10.00	Silicified wood

MOZAMBIQUE (continued)

648	10.09.1979	1.00 e	Quartz SiO_2
649	10.09.1979	1.50 e	Beryl $\text{Al}_2[\text{Be}_3\text{Si}_6\text{O}_{18}]$
650	10.09.1979	2.50 e	Magnetite Fe_3O_4
651	10.09.1979	5.00 e	Tourmaline $(\text{Na}, \text{Ca})(\text{Li}, \text{Mg}, \text{Fe}, \text{Al})_3(\text{Al}, \text{Fe})_6^-$ $[\text{B}_3\text{Si}_6\text{O}_{27}](\text{O}, \text{OH}, \text{F})_4$
652	10.09.1979	10.00 e	Euxenite $(\text{Y}, \text{Ce}, \text{U}, \text{Pb}, \text{Ca})(\text{Nb}, \text{Ta}, \text{Ti})_2(\text{O}, \text{OH})_6$
653	10.09.1979	20.00 e	Fluorite CaF_2

NEW CALEDONIA

472	17.03.1982	15 f	Chalcanthite $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$
473	17.03.1982	30 f	Anorthosite $(\text{Na}, \text{K})[\text{AlSi}_3\text{O}_8]$
C54	09.10.1967	70 f	Garnierite $(\text{Ni}, \text{Mg})_6[(\text{OH})_8 \text{Si}_4\text{O}_{10}]$
C187	15.01.1983	44 f	Gypsum $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
C188	15.01.1983	59 f	Silica gel

NEW ZEALAND

755	1.12.1982	1 c	Nephrite $\text{Ca}_2\text{Mg}_5[\text{OH} \text{Si}_4\text{O}_{11}]_2$
756	1.12.1982	2 c	Agate SiO_2
757	1.12.1982	3 c	Pyrite FeS_2
758	1.12.1982	4 c	Amethyste SiO_2
759	1.12.1982	5 c	Agate, carnelian SiO_2
760	1.12.1982	9 c	Sulphur, native S

POLAND

1671	21.07.1969	60 gr	Sulfur S
2347	14.07.1979	1.50 zł	Salt NaCl

PORTUGAL

1106	24.09.1971	1.00 e	Wolframite (Fe,Mn)[WO ₄]
1107	24.09.1971	2.50 e	Arsenopyrite FeAsS
1108	24.09.1971	3.50 e	Beryl Al ₂ [Be ₃ Si ₆ O ₁₈]
1109	24.09.1971	6.50 e	Chalcopyrite CuFeS ₂

RHODESIA

310	30.08.1971	2½ c	Granite, porphyritic
311	30.08.1971	7½ c	Mica, muscovite, thin section KAl ₂ [AlSi ₃ O ₁₀](OH,F) ₂
312	30.08.1971	15 c	Granite, thin section

SOUTHERN RHODESIA

102	19.02.1964	1/-	Emerald Al ₂ [Be ₃ Si ₆ O ₁₈]
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SOUTHWEST AFRICA

433	26.11.1979	4 c	Topaz $\text{Al}_2[(\text{F},\text{OH})_2 \text{SiO}_4]$
434	26.11.1979	15 c	Beryl $\text{Al}_2[\text{Be}_3\text{Si}_6\text{O}_{18}]$
435	26.11.1979	20 c	Malachite $\text{Cu}_2[(\text{OH})_2 \text{CO}_3]$
436	26.11.1979	25 c	Amethyste SiO_2

SWITZERLAND

B273	31.05.1958	10+10 c	Fluorite CaF_2
B275	31.05.1958	30+10 c	Garnet $(\text{Ca},\text{Mg})_3(\text{Al},\text{Fe})_2(\text{SiO}_4)_3$
B276	31.05.1958	40+10 c	Quartz SiO_2
B283	1.06.1959	10+10 c	Agate SiO_2
B284	1.06.1959	20+10 c	Tourmaline $(\text{Na},\text{Ca})(\text{Li},\text{Mg},\text{Fe},\text{Al})_3(\text{Fe},\text{Al})_6-[\text{B}_3\text{Si}_6\text{O}_{27}](\text{O},\text{OH},\text{F})_4$
B285	1.06.1959	30+10 c	Amethyste SiO_2
B292	1.06.1960	5+5 c	Quartz, smoky SiO_2
B293	1.06.1960	30+10 c	Feldspar
B295	1.06.1960	30+10 c	Azurite $\text{Cu}_3(\text{OH},\text{CO}_3)_2$
B304	1.06.1961	10+10 c	Fluorite CaF_2
B306	1.06.1961	30+10 c	Lazulite $(\text{Mg},\text{Fe})\text{Al}_2[\text{OH} \text{PO}_4]_2$

TRISTAN DA CUNHA

239	9.06.1978	3 p	Sodalite $\text{Na}_8[\text{Cl}_2](\text{AlSiO}_4)_6]$
240	9.06.1978	5 p	Aragonite CaCO_3
241	9.06.1978	10 p	Sulphur S
242	9.06.1978	20 p	Pyroxene, crystals in lava

TURKEY

2115	17.09.1979	5 ℓ	Colemanite $\text{Ca}_2[\text{B}_6\text{O}_{11}]\cdot 5\text{H}_2\text{O}$
2116	17.09.1979	7 $\frac{1}{2}$ ℓ	Chromite FeCr_2O_4
2117	17.09.1979	10 ℓ	Antimonite Sb_2S_3
2118	17.09.1979	15 ℓ	Sulphur S

URSS

2824	26.12.1963	2 k	Topaz $\text{Al}_2[(\text{F},\text{OH})_2 \text{SiO}_4]$
2825	26.12.1963	4 k	Jasper $\text{NaAlSi}_2\text{O}_6$
2826	26.12.1963	6 k	Amethyst SiO_2
2827	26.12.1963	10 k	Emerald $\text{Al}_2[\text{Be}_3\text{Si}_6\text{O}_{18}]$
2828	26.12.1963	12 k	Rhodonite $\text{CaMn}_4[\text{Si}_5\text{O}_{15}]$
2829	26.12.1963	16 k	Malachite $\text{Cu}_2[(\text{OH})_2 \text{CO}_3]$
3166	30.05.1968	6 k	?
4190	24.04.1974	10 k	Amethyst SiO_2

USA

1538	13.10.1974	10 c	Silicified wood
1539	13.10.1974	10 c	Tourmaline (Na,Ca)(Li,Mg,Fe,Al) ₃ (Al,Fe) ₆ - [B ₃ Si ₆ O ₂₇](O,OH,F) ₄
1540	13.10.1974	10 c	Amethyst SiO ₂
1541	13.10.1974	10 c	Rhodocrosite MnCO ₃

URUGUAY

828	7.10.1972	5 p	Amethyst SiO ₂
829	7.10.1972	9 p	Agate SiO ₂
830	7.10.1972	15 p	Chalcedony SiO ₂

ZAIRE

1102	13.02.1983	2 K	Malachite Cu ₂ [(OH) ₂ CO ₃]
1103	13.02.1983	45 K	Quartz SiO ₂
1104	13.02.1983	75 K	Gold Au
1105	13.02.1983	1.00 z	Uraninite UO ₂
1106	13.02.1983	1.50 z	Bournonite PbCuSbS ₃
1107	13.02.1983	3.00 z	Cassiterite SnO ₂
1108	13.02.1983	6.00 z	Dioptase Cu ₆ [Si ₆ O ₁₈].6H ₂ O
1109	13.02.1983	8.00 z	Cuprite Cu ₂ O
1110	13.02.1983	10.00 z	Diamond C

ZAMBIA

258	5.01.1982	8 n	Haematite Fe_2O_3
259	5.01.1982	18 n	Cobaltocalcite CoCO_3
260	5.01.1982	28 n	Amazonite KAlSi_3O_8
261	5.01.1982	32 n	Tourmaline $(\text{Na,Ca})(\text{Li,Mg,Fe,Al})_3(\text{Al,Fe})_6^-$ $[\text{B}_3\text{Si}_6\text{O}_{27}](\text{O,OH,F})_4$
262	5.01.1982	42 n	Uraninite UO_2
263	1.07.1982	8 n	Bornite Cu_5FeS_4
264	1.07.1982	18 n	Chalcopyrite FeCuS_2
265	1.07.1982	28 n	Malachite $\text{Cu}_3[\text{OH} \text{CO}_3]_2$
266	1.07.1982	32 n	Azurite $\text{Cu}_3[\text{OH} \text{CO}_3]_2$
267	1.07.1982	43 n	Vanadinite $\text{Pb}_5[\text{Cl} \text{(VO}_4)_3]$

MINÉRAUX SUR TIMBRES

Liste par échantillon



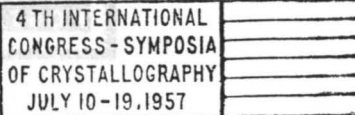
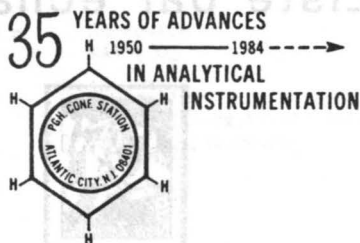
MINERALS ON STAMPS

List by specimen



Exemples d'obliterations en rapport avec la chimie

Samples of chemistry related cancellations



AGATE	SiO_2	AGATE
Algeria, 74		Australia, 559
Botswana, 115,118,119,156,159,160		Czechoslovakia, 1561
Germany (DDR), 1609,1960		Kenya, 106
Madagascar, 440		Malawi, 370
New Zealand, 756,759		Switzerland, B283
USA, 1540		Uruguay, 829
Morocco, 314a		
AMAZONITE	KAlSi_3O_8	AMAZONITE
Kenya, 101		Zambia, 260
AMETHYSTE	SiO_2	AMETHYSTE
Botswana, 114,155		Germany (DDR) 1357,1607
Kenya, 105		New Zealand, 758
Southwest Africa, 436		Switzerland, B285
URSS, 2826,4190		Uruguay, 828
ANORTHOSITE	$(\text{Na},\text{K})[\text{AlSi}_3\text{O}_8]$	ANORTHOSITE
New Caledonia, 473		
ANTIMONITE	Sb_2S_3	ANTIMONITE
Turkey, 2117		
AQUAMARINE	$\text{Al}_2[\text{Be}_3\text{Si}_6\text{O}_{18}]$	AIGUE MARINE
Kenya, 108		
ARAGONITE	CaCO_3	ARAGONITE
Madagascar, 550		Morocco, 314a
Tristan da Cunha, 240		
ARSENOPYRITE	FeAsS	ARSENOPYRITE
Portugal, 407		

AURICALCITE	$(\text{Zn,Cu})_5[\text{(OH)}_3 \text{CO}_3]_2$	AURICALCITE
Congo (Rep.) C94		

AZURITE	$\text{Cu}_3[\text{OH}, \text{CO}_3]_2$	AZURITE
Morocco, 478	Switzerland, B295	
Zambia, 266		

BARITE	BaSO_4	BARYTINE
Angola, 560	Greece, 1370	

BASALT	$(\text{Mg,Fe})_2[\text{SiO}_4]$	BASALT
Afars & Issas, 349,350,352		

BAUXITE		BAUXITE
Ghana, 824	Greece, 1370	

BERYL	$\text{Al}_2[\text{Be}_3\text{Si}_6\text{O}_{18}]$	BERYL
Kenya, 108	Mozambique, 497,649	
Portugal, 1108	Southwest Africa, 434	

BORNITE	Cu_5FeS_4	BORNITE
Zambia, 263		

BOURNONITE	PbCuSbS_3	BOURNONITE
Zaire, 1106		

CALCITE	CaCO_3	CALCITE
Germany (DDR), 1109	Hungary, 1991	
Madagascar, 441		

CASSITERITE	SnO_2	CASSITERITE
Zaire, 1107		
CELESTITE	SrSO_4	CELESTINE
Madagascar, 552		
CHALCANTHITE	$\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$	CHALCANTHITE
New Caledonia, 472		
CHALCEDONY	SiO_2	CALCEDOINE
Uruguay, 830		
CHALCOPYRITE	FeCuS_2	CHALCOPYRITE
Botswana, 127,168		Portugal, 1109
Zambia, 264		
CHROMITE	FeCr_2O_4	CHROMITE
Cuba, (1975)		Greece, 1371
Turkey, 2116		
CHRYSOPTASE	SiO_2	CHRYSOPTASE
Australia, 558		
CHRYSOTILE	$\text{Mg}_6[(\text{OH})_8 \text{Si}_4\text{O}_{10}]$	CHRYSOTILE
Botswana, 126,167		Greece, 1367
CINNABAR	HgS	CINABRE
China (People's Rep.), 1801		
CITRINE	SiO_2	CITRINE
Botswana, 126,167		

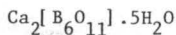
COBALTOCALCITE



COBALTOCALCITE

Zambia, 259

COLEMANITE



COLEMANITE

Turkey, 2115

COPPER, native



CUIVRE, natif

Cyprus, 596

Congo, 634

Cuba, (1975)

Greece, 1369

Hungary, 1995

COPPER, ore

CUIVRE, minerais

Israel, 795

CORUNDUM



CORINDON

Kenya, 110, 111

CRYSTALLIZED WOOD

BOIS CRISTALLISE

Afars & Issas, C101

CUPRITE



CUPRITE

Hungary, 1996

Zaïre, 1109

DIAMOND



DIAMANT

Botswana, 61, 122, 163

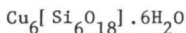
Congo, 636

Ghana, 824

Lesotho, 148, 202

Zaïre, 1110

DIOPTASE



DIOPTASE

Angola, 553

Congo (Rep.), C95

Zaïre, 1108

DOLOMITE	$\text{CaMg}(\text{CO}_3)_2$	DOLOMITE
Jugoslavia, 1499		
EMERALD	$\text{Al}_2[\text{Be}_3\text{Si}_6\text{O}_{18}]$	EMERAUDE
Colombia, 808	Israel, 797	
Southern Rhodesia, 102	URSS, 2827	
ERYTHRITE	$(\text{Co}, \text{Ni})_3[\text{AsO}_4]_2 \cdot 8\text{H}_2\text{O}$	ERYTHRINE
Germany (DDR), 1105	Morocco, 314	
EUXENITE	$(\text{Y}, \text{Ce}, \text{U}, \text{Pb}, \text{Ca})(\text{Nb}, \text{Ta}, \text{Ti})_2(\text{O}, \text{OH})_6$	EUXENITE
Mozambique, 652		
FELDSPAR	$(\text{Na}, \text{Ca})[\text{AlSi}_3\text{O}_8]$	FELDSPATH
Malawi, 371	Switzerland, B293	
FLUORITE	CaF_2	FLUORINE
Algeria, 713	Germany (DDR), 1106	
Kenya, 104	Mozambique, 653	
Switzerland, B273, B304		
GALENA	PbS	GALENE
Germany (DDR), 1107	Germany (FRG), 979	
Greece, 1372	Kenya, 102	
GARNET	$(\text{Ca}, \text{Mg})_3(\text{Al}, \text{Fe})_2(\text{SiO}_4)_3$	GRENAT
Kenya, 109, 112	Switzerland, B275	
GARNIERITE	$(\text{Ni}, \text{Mg})_6[(\text{OH})_8 \text{Si}_4\text{O}_{10}]$	GARNIERITE
New Caledonia, C54		

GOLD, native	Au	OR
Fiji, 253,273		Ghana, 824
Zaire, 1104		
GRANITE		GRANITE
Rhodesia, 310,312		
GREENOCKITE	CdS	GREENOCKITE
Hungary, 1991		
GYPSUM	$\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$	GYPSE
Algeria, 710		Germany (DDR), 1354
Greece, 1368		Kenya, 98
Morocco, 457		New Caledonia, C187
HAEMATITE	Fe_2O_3	HEMATITE
Zambia, 258		
HALITE	NaCl	HALITE
Algeria, 712		Germany (DDR), 1358
Poland, 2347		
IRON, meteorite	Fe	FER, météoritique
Angola, 552		Greenland, 122
IRON, ore		FER, minéraux
Ghana, 824		
JASPER	$\text{NaAlSi}_2\text{O}_6$	JASPE
Botswana, 124,165		Germany (DDR), 1604
URSS, 2824		

KIMBERLITE

Lesotho, 148

KIMBERLITE

KYANITE

Kenya, 100

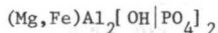


DISTHENE, CYANITE

Malawi, 373

LAZULITE

Switzerland, B306



LAZULITE

MAGNETITE

Mozambique, 650



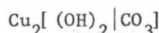
MAGNETITE

MALACHITE

Germany (DDR), 1356

Southwest Africa, 435

Zaire, 1102



MALACHITE

Morocco, 478

URSS, 2829

Zambia, 265

MANGANESE, ore

Gabon, C118, 529 f

MANGANESE, minerais

MARBLE

Botswana, 121, 162

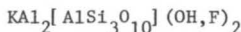


MARBRE

Madagascar, 508

MICA

Angola, 559

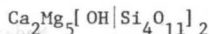


MICA

Rhodesia, 311

NEPHRITE

New Zealand, 799



NEPHRITE

NICCOLITE

Botswana, 117, 158



NICCOLITE

NICKEL

Ni

NICKEL

Cuba, (1975)

ONYX

SiO_2

ONYX

Morocco, 477

OPAL

$\text{SiO}_2 \cdot n\text{H}_2\text{O}$

OPALE

Australia, 560,580

ORPIMENT

As_2S_3

ORPIMENT

China (People's Rep.), 1799

PROUSTITE

Ag_3AsS_3

PROUSTITE

Germany (DDR), 798,1359

PYRITE

FeS_2

PYRITE

Greece, 1372

New Zealand, 757

PYROXENE

PYROXENE

Tristan da Cunha, 242

PYRRHOTITE

$\text{Fe}_{(1-x)}\text{S}$

PYRRHOTITE

Jugoslavia, 1498

QUARTZ

SiO_2

QUARTZ

Botswana, 116,125,157,166

Germany (DDR), 1108

Hungary, 1993

Madagascar, 442

Malawi, 372

Mozambique, 648

Switzerland, B276,B292

RHODOCROSITE

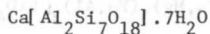
MnCO_3

RHODOCROSITE

USA, 1541

RHODOLITE	$(\text{Ca}, \text{Mg})_3(\text{Fe}, \text{Al})_2[\text{SiO}_4]_3$	RHODOLITE
Kenya, 109		
RHODONITE	$\text{CaMn}_4[\text{Si}_5\text{O}_{15}]$	RHODONITE
Australia, 561		URSS, 2828
RUBY	Al_2O_3	RUBIS
Kenya, 111		
SAPPHIRE	Al_2O_3	SAPHIR
Australia, 562		Kenya, 110
SILICA GEL		GEL DE SILICE
New Caledonia, C188		
SILICIFIED WOOD		BOIS PETRIFIE
Kenya, 103		Madagascar, 551
Mozambique, 502,528		USA, 1538
SILVER, native	Ag	ARGENT, natif
Germany (DDR), 1110		
SODALITE	$\text{Na}_8[\text{Cl}_2 (\text{AlSiO}_4)_6]$	SODALITE
Tristan da Cunha, 239		
SPHALERITE	ZnS	SPHALERITE
Greece, 1372		Hungary, 1991
Jugoslavia, 1500		Germany (FRG), 979
STIBNITE	Sb_2S_3	STIBINE
China (People's Rep.), 1800		
STIBIOTANTALITE	SbTaO_4	STIBIOTANTALITE
Mozambique, 496		

STILBITE



STILBITE

Botswana, 120,161

SULPHUR, native

S

SOUFRE, natif

Germany (DDR), 799

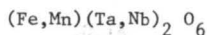
New Zealand, 760

Poland, 1671

Turkey, 2118

Tristan da Cunha, 241

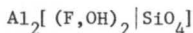
TANTALO-COLUMBITE



TANTALO-COLUMBITE

Mozambique, 499

TOPAZ



TOPAZE

Southwest Africa, 433

URSS, 2824

TOURMALINE



TOURMALINE

Kenya, 107

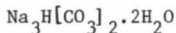
Mozambique, 500,524,651

Switzerland, B284

USA, 1539

Zambia, 261

TRONA



TRONA

Kenya, 99

URANINITE



URANINITE

Zaire, 1105

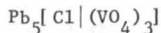
Zambia, 262

URANIUM, ore

URANIUM, minéraux

Gabon, C117

VANADINITE



VANADINITE

Morocco, 313

Zambia, 267

VERDELITE $(\text{Na,Ca})(\text{Li,Mg,Fe,Al})_3(\text{Fe,Al})_6[\text{B}_3\text{Si}_6\text{O}_{17}](\text{O,OH,F})_4$ VERDELITE
Mozambique, 500,524

WOLFRAMITE $(\text{Fe,Mn})[\text{WO}_4]$ WOLFRAMITE
China (People's Rep.) 1802 Portugal, 1106

WULFENITE $\text{Pb}[\text{MoO}_4]$ WULFENITE
Jugoslavia, 1501

ZIRCON ZrSiO_4 ZIRCON
Mozambique, 501

ZINNWALDITE $(\text{K,Li,Fe,Al})[\text{AlSi}_3\text{O}_{10}](\text{F,OH})_2$ ZINNWALDITE
Germany (DDR), 1355

