

Zabuyelite

Zheng Mianping and Liu Wengao: Acta Mineral. Sinica (1987) 7, 221-226

China - Tibet - Nagri - Zabuye Salt Lake

- China: NMG-Beijing - Type: T:

Zaccagnaite

Merlino S and Orlandi P: Amer.Min.(2001) 86, 1293-1301

Italia - Toscana - Carrara (E of), Colonnata valley - Callagio marble quarry

- Italy: MSNU-Pisa - Type: T:

Zaherite

Ruotsala AP and Babcock LL: Amer.Min.(1977) 62, 1125-1128

Pakistan - Salt Range

- USA: NMNH-Washington - Type: T: 143793 (don. Michigan Techn.Univ., thru AP Ruotsala, 1978; Geol.Surv. Pakistan, no. 66-SU-250/39)

Zairite

Van Wambeke L: Bull.Soc.fr.Min.Crist.(1975) 98, 351-353

Zaire - Kivu - Lubero - Etaetu river

- Belgium: MRAC-KMMA-Tervuren - Type: HT: RGM 14.065

Zajacite-(Ce)

Jambor JL, Roberts AC, Owens DR, Grice JD: Can.Min.(1996) 34, 1299-1304

Canada - Quebec - Labrador bound - Schefferville (~250km NE of) - Strange Lake Zr-Y-REE-Nb-Be deposit

- Canada: GSC-Ottawa - Type: HT: NMC 67314

Zakharovite

Khomyakov AP, Kazakova ME, Vrublevskaya AP, Zvyagin BB, Piloyan GO: ZVMO,(1982) 111, 491-495

Russia - Kola Peninsula - Lovozero massif - Karnasurt Mt.

- Russia: FMM-Moscow - Type: T:
- Russia: GIKB-Apatity - Type: T:
- United Kingdom: NHM-London - Type: HT: BM 1994,038 (part of)

In foidite

Zálesiite

Sejkora J, Ridkosi T, Srein V: Neues Jahrb.,Abh.(1999) 175, 105-124

Czech Republic - Moravia (N of) - Jeseník (25km NW) and Javorník (8km SW) - Rychlebské hory Mts. - Zalesi U-deposit

- Czech Republic: MBP-Turnov - Type: CT: P678/98, M 4291

The deposit was open from shaft "Pavel" and mined from galleries no. I, II and III in five levels at vertical intervals of 50m.

- Czech Republic: NMNH-Praha - Type: HT: PIN 84599

The deposit was open from shaft "Pavel" and mined from galleries no. I, II and III in five levels at vertical intervals of 50m.

Zanazziite

Leavens PB, White JS, Nelen JA: Min.Rec.(1990) 21, 413-417

Brazil - Minas Gerais - Taquaral (near) - Lavra da Ilha

- USA: NMNH-Washington - Type: T: R17847 (Roebbling coll., 1972)

Zdenekite

Chiappero PJ, Sarp H: *Eur.J.Min.*(1995) 7, 553-557

France - Provence-Alpes-Côte d'Azur - Var dép. - Pradet, near - Cap Garonne mine

- France: MHN-Paris - Type: T:
- Switzerland: NHM-Geneve - Type: T:

Zektzerite

Dunn PJ, Rouse RC, Cannon B, Nelen JA: *Amer.Min.*(1977) 62, 416-420

USA - Washington - Okanogan County - Washington Pass (Golden Horn batholite) - Kangaroo Ridge

- USA: HMM-Cambridge - Type: HT: (part of NMNH 136030)
- United Kingdom: NHM-London - Type: HT (part of): BM 1976,423
- USA: NMNH-Washington - Type: HT: 136030 (don. J Zektzer, 1976)
- Canada: ROM-Toronto - Type: CT: M34553 (300mg)

Zellerite

Coleman RG and Granger HG: *New Mexico Bur.Mines Resources, Mem.*(1963) 15, 21

USA - Wyoming - Fremont County - Gas Hill deposit - Lucky MC mine

- USA: NMNH-Washington - Type: T: 112827 (don. U.S.Geol.Surv., 1957; on the same specimen with type Metazellerite)

Second TL = New Mexico, Grant County, Alta mine. Compare RG Coleman, DR Ross, Meyrowitz R in: Amer.Min.(1966) 51, 1567-1578

Zemannite

Mandarino JA, Matzat E, Williams SA: *Can.Min.*(1969) 10, 139-140

Mexico - Sonora - Municipio de Moctezuma - Moctezuma - Moctezuma mine

- France: MHN-Paris - Type: T: (don. RV Gaines)
- USA: NMNH-Washington - Type: T: 128390 (don. RV Gaines, 1976)
- Canada: ROM-Toronto - Type: CT: M25933 (a few mg)

Zemkorite

Yegorov KN, Ushchapovskaya ZF, Kashayev AA, Bogdanov GV, Sizykh YuL: *DAN-SSSR*,(1988) 301, 188-193

Russia - Yakutiya - Daldyn kimberlite field - Udachnaya pipe

- Russia: FMM-Moscow - Type::

Zenzenite

Holtstam D, Lindqvist B, Johnsson M, Norrestam R: *Can.Min.*(1991) 29, 347-354

Sweden - Värmland - Filipstad - Filipstad - Langban

- Sweden: SMNH-Stockholm - Type: HT: 401841

Zharchikhite

Bolokhontseva SV, Baturin SV, Il'menev ES, Panova MA, Purusova SP: *ZVMO*,(1988) 117, 79-83

Russia - Buryatskaya A.R. - Zharchikhinskoye deposit, a layered Mo-deposit

- Russia: FMM-Moscow - Type: T:

Ziesite

Hughes JM, Birnie RW: *Amer.Min.*(1980) 65, 1146-1149

El Salvador - Izalco Volcano - Fumaroles (fumarolic sublimate)

- USA: GL-Washington - Type: CT:

Zimbabweite

Foord EE, Taggart JE, Gaines RV, Grubb PLC, Kristiansen R: *Bull.Min.*(1986) 106, 331-336

Zimbabwe - Karoi (formerly Urungwe) District - Miami (SE of) - St. Anns pegmatite mine

- USA: NMNH-Washington - Type: T: 162513 (don. U.S.Geol.Surv., thru EE Foord, 1985)

Zincaluminite

Damour A: Bull.Soc.fr.Min.(1881) 4, 135

Greece - Attica - Lavrion

- France: MHN-Paris - Type: T: 96.1432 (don. E Bertrand)

Zincgartrellite

Effenberger H, Krause W, Bernhardt H-J, Martin M: Min.Mag.(2000) 64, 1109-1126

Namibia - Otavi - Tsumeb

- Germany: RUB-Bochum - Type: T: 081

Zincmelanterite

Larsen ES and Glenn ML: Amer.J.Sci.(1920) ser. 4, 50, 225-233

USA - Colorado - Gunnison County - Vulcan - Good Hope mine

- USA: NMNH-Washington - Type: T: 093244 (don. U.S.Geol.Surv., 1917)

Zincochromite

Nesterov AR, Rummyantseva YeV: ZVMO,(1987) 116, 367-371

Russia - Karelskaya A.R. - Onega trough (S-Karelia) - Transonega Peninsula

- Russia: MM-St.Petersburg - Type::

Zincohögbomite-8H

Ockenga E, Yalcin Ü, Medenbach O, Schreyer W: Eur.J.Min.(1998) 10, 1361-1366

Turkey - Menderes Massif

- Germany: RUB-Bochum - Type: T:
- Germany: TUIM-Braunschweig - Type: T:

Feenstra A & Ockenga E, Yalcin Ü, Medenbach O, Schreyer W: Schweiz.Min.Petr.Mitt.(1997) 77, 73-93 &

Eur.J.Min.(1998) 10, 1361-1366

Greece - Samos Island - Kerketefts Mt. - (emery deposit)

- Germany: RUB-Bochum - Type: T:
- Germany: TUIM-Braunschweig - Type: T:

Zincovoltait

Li Wanmao, Chen Guoying, Sun Shurong: Acta Mineral Sinica (1987) 7, 307-312

China - Qinghai Province - Qaidam (Chaidamu) basin - Xitieshan (in the oxidation zone of a Pb-Zn-Fe deposit)

- China: GDU-Lanzhou - Type: T:
- China: NMG-Beijing - Type: T:

Zincowoodwardite-1T

Witzke T and Raade G: Neues Jahrb.Min.,Mh.(2000) 455-465

Greece - Attica - Lavrion (near), Kamariza - Hilarion mine

- Germany: BAF-Freiberg - Type: CT: 78399
- Austria: NHMW-Wien - Type: CT: H858

Zincowoodwardite-3R

Witzke T and Raade G: Neues Jahrb.Min.,Mh.(2000) 455-465

Greece - Attica - Lavrion (near), Kamariza - Hilarion mine

- Germany: BAF-Freiberg - Type: CT: 78399
- Austria: NHMW-Wien - Type: CT: H858

Zincrosasite

Strunz H: Fortschritte Min.(1959) 37, 87-90

Namibia - Otavi - Tsumeb (800-1000m levels)

- Germany: IMK-TU-Berlin - Type: HT: N1377 (approx. 2 cm³ in fibrous aggr. on smithsonite)

Keller P, Innes J, Dunn PJ: Neues Jahrb.Min.,Mh.(1986) 523-527

Namibia - Otavi - Tsumeb (level 32)

- Germany: IMKU-Stuttgart - Type: HT: NM 16
- USA: NMNH-Washington - Type: CT: 163340

Zincsilite

Smolyaninova NN, Moleva VA, Organova NI: Rep.Meet.Internat.Comm.Study Clays,(1960) 45-52

Kazakhstan - (Central) - Batystau Pb-Zn-Cu deposit

- Russia: VGM-Moscow - Type: CT: 46337 (Smolianinova 1959)

Zircophyllite

Kapustin YuL: ZVMO,(1972) 101, 459-463

Russia - Tuva - Korgeredabinsk massif, in Syenite

- Russia: FMM-Moscow - Type::

Zirkelite

Hussak E and Prior GT: Min.Mag.(1895) 11, 80-88

Brazil - Sao Paulo - Jacupiranga

- France: MHN-Paris - Type: T: 97.29 (don. E Hussak)
- United Kingdom: NHM-London - Type: HT: BM 80142

Redefinition of the mineral species by P Bayliss, F Mazzi, R Munno, TJ White in: Min.Mag.(1989) 53, 565-569

Zirklerite

Harbort E: Kali, Halle,(1928) 22, 157-161

Germany - Niedersachsen - Hannover - Hope (near Walsrode) - Adolfsglück mine

- United Kingdom: NHM-London - Type: HT (part of): BM 1929,40

Zirsinalite

Kapustin YuL, Pudovkina ZV, Bykova AV: ZVMO,(1974) 103, 551-558

Russia - Kola Peninsula - Khibiny massif - Koashva Mt.

- Russia: FMM-Moscow - Type: T:

Zlatogorite

Kabalov YuK, Sokolova EV, Spiridonov EM, Spiridonov FM: Doklady Akad. Nauk,(1994) 335, n6, 709-711

Russia - Central Urals - Zlatoja Gora deposit

- Russia: FMM-Moscow - Type: T:

From the listwenite in rodingite.

Znucalite

Ondrus O, Veselovsky F, Rybka R: Neues Jahrb.Min.,Mh.(1990) 393-400

Czech Republic - Stredocesky (Central Czechy) - Pribram - Lill mine dumps (operated 2nd half 19th century)

- Czech Republic: CUP-Praha - Type: CT:
- Czech Republic: NMCR-Praha - Type: CT:
- Czech Republic: RMM-Pribram - Type: CT:

Zodacite

Dunn PJ, Grice JD, Metropolis WC: *Am.Min.*(1988), 73, 1179-1181

Portugal - Viseu - Mangualde pegmatite (N40 36', W7 46')

- Canada: CMN-Ottawa - Type: T: 53452
- USA: NMNH-Washington - Type: HT: 149.953

Zorite

Merkov AN, Bussen IV, Goiko EA, Kulitskaya EA, Men'shikov YuP, Nedorezova AP: *ZVMO*,(1973) 102, 54-62

Russia - Kola Peninsula - Lovozero massif - Karnasurt Mt. - Jubilejnaja pegmatite

- Russia: GIKB-Apatity - Type: T:
- Russia: MM-St.Petersburg - Type: T:

Hydrothermal

Zoubekite

Megarskaya L, Rykl D, Taborsky Z: *Neues Jahrb.Min.,Mh.*(1986) 1-7

Czech Republic - Stredocesky (Central Czechy) - Pribram mining district

- Czech Republic: NMCR-Praha - Type: CT: PIN-87272 (micr. grains, pol. sect.)
- Czech Republic: RMM-Pribram - Type: HT:

Zoubekite has been described on the basis of two old specimens, collected in the 1850's and deposited in RMM-Pribram

Zugshunstone-(Ce)

Rouse RC, Peacor DR, Essene EJ, Coscren TD, Lauf RJ: *Geochim.Cosmochim. Acta* (2001) 65, 1101-1115

USA - Tennessee - Great Smoky Mountains National Park - Alum Cave Bluff

- USA: DGM-UM-Ann Arbor - Type: T:
- USA: NMNH-Washington - Type: T:

Zunyite

Hillebrand WF: *Proc. Colorado Sci.Soc.*(1884) 1, 124-132

USA - Colorado - San Juan County - Anvil Mountain, Silverton - Zuny mine

- USA: NMNH-Washington - Type: T: 049082 (don. U.S.Geol.Surv., thru WF Hillebrand 1890)

Zussmanite

Agrell SO, Bown MG, McKie D: *Amer.Min.*(1965) 50, 278 (abstract)

USA - California - Mendocino County - Laytonville district - Laytonville (5 mls S of)

- United Kingdom: NHM-London - Type: CT: BM 1964,545
- USA: NMNH-Washington - Type: T: 109454 (don. G Switzer, 1964)

Zvyagintsevite

Genkin AD, Muraveva IV, Troneva NV - Cabri LJ, Traill RJ: *Geol.Rud.Mestorozhd.*(1966) 8, 94-100 (A) - id. with *Can.Min.*(1966) 8, 541-550 (B)

Russia - Krasnoyarskiy Kray - Noril'sk - Talnakh - Zapolyarny mine

- Canada: GSC-Ottawa - Type: HT: 10401 (p.sect.) don by LJ Cabri

In pentlandite ores; A with - B without Sn !

Zykaite

Cech F, Jansa J, Novak F: *Neues Jahrb.Min.,Mh.*(1978) 134-144

Czech Republic - Stredocesky (Central Czechy) - Kutna Hora (near) - Kank - Safary mine

- Czech Republic: CUP-Praha - Type: CT: 20558 (50mg)
- France: ENSM-Paris - Type: CT: (don. f Cech, thru Z Johan, 1976)
- USA: NMNH-Washington - Type: T: 144940/41 (don. L Wals, 1979)

From the dumps of the ancient Safary mine; fillings in cavities after leaching sulfides.