

Zaba Gem = synthetic gem rutile, Nassau 214 (1980).  
zabardhzat = chrysolite, Bukanov 409 (2006).  
zabeltitzigyémánt = transparent quartz, László 95 (1995).  
Zabeltitzten diamond = transparent quartz, Read 244 (1988).  
zabeltitzter Diamant = transparent quartz, Haditsch & Maus 244 (1974).  
zaberzat = chrysoberyl or beryl or olivine, Bukanov 55, 64, 103 (2006).  
zacharowiet = zakharovite, Council for Geoscience 787 (1996).  
zacotinga = hematite ± gold, de Fourestier 387 (1999).  
zaffirin = blue asteriated gem Fe-Ti-rich corundum, László 319 (1995).  
zaffiro = blue asteriated gem Fe-Ti-rich corundum, Zirlin 96 (1981).  
Zafir = blue gem Fe-Ti-rich corundum, Zirlin 95 (1981).  
zafirin (Giesecke) = sapphirine, László 300 (1995).  
zafirin (Nose) = haüyne, László 300 (1995).  
zafirina = blue quartz-mogánite mixed-layer, AM 12, 392 (1927).  
zafírkvarc = quartz ± acicular rutile ± tourmaline ± fibrous riebeckite, László 153 (1995).  
zafírmacskaszem = blue gem Fe-Ti-rich corundum, László 300 (1995).  
zafiro = blue asteriated gem Fe-Ti-rich corundum, Dana 6th, 1134 (1892).  
zafiro de agua = cordierite, de Fourestier 387 (1999).  
zafiro del Brasil = blue gem elbaite, de Fourestier 387 (1999).  
zafiro falso = pink gem elbaite, de Fourestier 387 (1999).  
zafiro oriental = blue asteriated gem Fe-Ti-rich corundum, Novitzky 282 (1951).  
zafiro verdadero = blue asteriated gem Fe-Ti-rich corundum, Novitzky 282 (1951).  
zafirspinell = blue spinel, László 250 (1995).  
zagotinga = hematite ± gold, de Fourestier 387 (1999).  
zahab = gold, Egleston 139 (1892).  
zaharovait = Bi-bearing jamesonite, László 300 (1995).  
zaharovit = zakharovite, László 300 (1995).  
zähes Erdpech = bitumen, Egleston 34 (1892).  
Zahntürkis = Mn<sup>5+</sup>-rich fluorapatite, Doelter III.1, 507 (1914).  
zaireite = zaïrite, MM 40, 916 (1976).  
zairite = zaïrite, Strunz & Nickel 463 (2001); MR 39, 134 (2008).  
zajacite = gagarinite-(Ce), CM 49, 1111 (2011).  
zajacite-(Ce) = gagarinite-(Ce), MM 74, 942 (2010).  
zala = borax, Dana 6th, 1134 (1892).  
Zalesiit = zálesiite, Weiss 285 (2008); MR 39, 134 (2008).  
zambonina = fluorite + sellaite, MM 22, 630 (1931).  
Zamboninit (Bauer) = nontronite-12Å, MA 3, 452 (1928).  
zamboninite (Stella Starrabba) = fluorite + sellaite, AM 19, 556 (1934).  
zamlanka = halite, Papp 101 (2004).  
Zamtit = zaratite, Dana 6th, 306 (1892).  
Zandrite = Nd-rich glass, GG 41, 364 (2005).  
Zanite = vermiculite, Robertson 36 (1954).  
zanthochroite = colloidal greenockite, Thrush 1252 (1968).  
zappinite = Rh-S, Clark 771 (1993).  
zarafina = blue quartz-mogánite mixed-layer or spinel, Read 244 (1988).  
zaratite (questionable) = mixture, MM 33, 663 (1963); PDF 16-164.  
zarnec = orpiment or realgar, Thrush 1252 (1968).  
zarnich = orpiment or realgar, Thrush 1252 (1968).  
zavalite = zaratite, Chester 293 (1896).  
zavarickit = zavaritskite, László 300 (1995).  
Zavaritzkit = zavaritskite, Chudoba EIII, 282 (1966).

zavogynszkit = hessite, László 300 (1995).  
zawaritskiet = zavaritskite, Council for Geoscience 787 (1996).  
zawaryzkite = zavaritskite, MM 33, 1157 (1964).  
zdenekite = zdeněkite, CM 37, 1078 (1999); MR 39, 134 (2008).  
zdenerite = zdeněkite, Back & Mandarino 130 (2008).  
zeagite = opal, de Fourestier 387 (1999).  
Zeagonit = gismondine + phillipsite or lévyne, Dana 6th, 586 (1892).  
Zé Arara = 4 kg. gold, Cornejo & Bartorelli 165 (2010).  
Zeasit = orange-red opal-A, Chester 293 (1896).  
Zeathite = tausonite, MM 39, 931 (1974).  
zeazit = opal-A, László 300 (1995).  
Zebadassit = saponite, Haditsch & Maus 244 (1974).  
zebedassite = saponite, AM 39, 406 (1954).  
zeblicius ophites = serpentine, Hintze II, 763 (1890).  
zebra = pyrophyllite, Bukanov 313 (2006).  
zebra agate = black-white banded quartz-mogánite mixed-layer, Bukanov 440 (2006).  
zebra crocidolite = quartz pseudomorph after riebeckite, Read 244 (1988).  
zebra jasper = brown stripped quartz + hematite, Webster & Anderson 965 (1983).  
Zebrajaspis = brown stripped quartz + hematite, Haditsch & Maus 244 (1974).  
zebra onyx = black-white banded quartz-mogánite mixed-layer, Bukanov 137 (2006).  
zebra rock = quartz + hematite + chlorite, AM 16, 221 (1931).  
zebras-eye = colored stripped chatoyant quartz pseudomorph after riebeckite, Bukanov 116 (2006).  
zebra stone = brown stripped quartz + hematite, Schumann 13 (1977).  
zechsteinite = unknown, IMA 2005-041.  
zeilanite = dark-green Fe<sup>2+</sup>-rich spinel, Dana 6th, 220 (1892).  
Zeiringit = aragonite + aurichalcite, AM 48, 1184 (1963); 50, 1142 (1965).  
zeisiggrüne Eisenerde = nontronite, Papp 11 (2004).  
zelenit = gypsum, Bukanov 285 (2006).  
zelerita = zellerite, Zirlin 115 (1981).  
Zelkies = marcasite, Clark 772 (1993).  
Zellengalmei = smithsonite, Tschermak 444 (1894).  
Zellenkalk = calcite, Tschermak 439 (1894).  
Zellenquarz = honeycombed quartz, László 301 (1995).  
Zellkies (?) = marcasite, Dana 6th, 94 (1892).  
Zellkies (?) = pyrite, Doelter IV.1, 527 (1925).  
Zellquarz = honeycombed quartz, Tschermak 388 (1894).  
Zemanit = zemannite, Chudoba EIV, 106 (1974).  
zemech = lazurite, de Fourestier 387 (1999).  
Zementkupfer = copper, Kipfer 155 (1974).  
zemcorite = zemkorite, Back & Mandarino 167 (2008).  
zemmanit = zemannite, László 319 (1995).  
Zengit = C-rich whitlockite pseudomorph after brushite, Doelter III.1, 390 (1914).  
Zenithite = synthetic gem tausonite, Nassau 216 (1980).  
zenotime = xenotime-(Y), Sinkankas 292 (1972).  
zenzenite = zenzénite, MR 28, 437 (1997); 39, 134 (2008).  
zeofillit = zeophyllite, László 301 (1995).  
zeolita azul = lazulite, de Fourestier 387 (1999).

zeolita bronceada = stilbite-Na, de Fourestier 387 (1999).  
 zeolita de Bretana = laumontite, de Fourestier 388 (1999).  
 zeolita del Cabo = prehnite, de Fourestier 388 (1999).  
 zeolita de Sudermania = spodumene, de Fourestier 388 (1999).  
 zeolita dura = analcime, de Fourestier 388 (1999).  
 zeolita harinosa = laumontite, de Fourestier 388 (1999).  
 zeolita roja = laumontite, de Fourestier 388 (1999).  
 zeolite family =  $D_{n/v}[(Al_nSi_p)O_{2(n+p)}] \cdot x(H_2O, M)$ , AM 83, 131 (1998).  
 zeolite albus fibrosus, capillaris, etc. = natrolite, Egleston 227 (1892).  
 zeolite Ba-G = perliolite, Bates & Jackson 494 (1987).  
 zeolite- $\beta$  = tschernichite, PDF 46-1396.  
 zeolite bloa = gem lazurite, Clark 81 (1993).  
 zéolite commune = stilbite, Egleston 328 (1892).  
 zeolite compacta terrea = laumontite, de Fourestier 388 (1999).  
 zeolite cubic = chabazite or analcime, Clark 772 (1993).  
 zéolite cubique = analcime, Dana 6th, 595 (1892).  
 zeolite d'ædelfors = laumontite, Egleston 183 (1892).  
 zeolite de Borkhula = altered anorthite, Egleston 18 (1892).  
 zéolite de Borkhult = altered anorthite, Des Cloizeaux I, 302 (1862).  
 zéolite d'Hellesta = apophyllite, Des Cloizeaux I, 125 (1862).  
 zeolite d'Upsala = laumontite, de Fourestier 388 (1999).  
 zéolite dure = analcime, Dana 6th, 595 (1892).  
 zeolite EAB = bellbergite, Ciriotti et al. 302 (2009).  
 zeolite ECR-1 (K-dominant) = direnzoite, Ciriotti et al. 302 (2009).  
 zéolite efflorescente = laumontite, Des Cloizeaux I, 402 (1862).  
 zéolite en cubes = chabazite, Dana 6th, 589 (1892).  
 zéolite fibreuse = natrolite, Egleston 227 (1892).  
 zeolite K = perliolite, Bates & Jackson 494 (1987).  
 zeolite L = perliolite, EJM 2, 749 (1990).  
 zéolite leucitique = analcime, Dana 6th, 595 (1892).  
 zeolite mimetica = dachiardite-Ca, MM 14, 413 (1907).  
 zéolite nacrée = stilbite + heulandite, Clark 772 (1993).  
 zeolite Na-P = amicite, Ciriotti et al. 302 (2009).  
 zéolite noir = gadolinite-(Y), Egleston 131 (1892).  
 zeolite NU-87 = gottardite, Ciriotti et al. 302 (2009).  
 zeolite of Breisgau = hemimorphite, Dana 6th, 549 (1892).  
 zeolite of Brisgau = hemimorphite, Egleston 61 (1892).  
 zeolite omega = mazzite-Mg, Ciriotti et al. 302 (2009).  
 zeolite RHO = pahasapaite, Ciriotti et al. 302 (2009).  
 zéolite rouge d'Ædelforss = stilbite or laumontite ?, Des Cloizeaux I, 419 (1862).  
 zeolite pyramidal = apophyllite-(KF), Egleston 24 (1892).  
 zeolites albus fibrosus, capillaris, etc. = natrolite, Egleston 375 (1892).  
 zéolites aciculaires subfamily = acicular natrolite + mesolite + scolecite + thomsonite + mordenite, Novitzky 216 (1951).  
 zeolites bloa = gem lazurite ± calcite ± scapolite, Chester 35 (1896).  
 zeolites crystallisatus = stilbite, Clark 773 (1993).  
 zeolites crystallisatus prismaticus, capillaris = natrolite, Dana 6th, 600 (1892).  
 zeolites cryst. crystalli ad centrum tendentes = stilbite, Dana 6th, 583 (1892).  
 zeolites electricus turmalin = elbaite, de Fourestier 388 (1999).

zeolites facie selenitica lamellaris = stilbite, Egleston 328 (1892).  
zeolite tenace = okenite, Egleston 236 (1892).  
zeolite type-L = perllialite, Ciriotti et al. 302 (2009).  
zeolite VPI-7 = gaultite, Ciriotti et al. 302 (2009).  
zeolite X = faujasite, EJM 11, 333 (1999).  
zeolite ZK-19 = phillipsite, AM 54, 1607 (1969).  
zeolite ZSM-5 = mutinaite, Ciriotti et al. 302 (2009).  
zeolith cubique = chabazite, Egleston 74 (1892).  
zéolithe bleue = gem lazurite ± calcite ± scapolite, Egleston 182 (1892).  
zéolithe calcaire = pectolite, Egleston 248 (1892).  
zéolithe commune = stilbite, Egleston 375 (1892).  
zéolithe cubique = chabazite or analcime, Egleston 375 (1892).  
zéolithe d'ædelfors = laumontite, Egleston 375 (1892).  
zéolithe de Borkhult = altered anorthite, Egleston 375 (1892).  
zéolithe de 24 facettes = analcime, Egleston 16 (1892).  
zéolithe de Rozena = trillithionite or polyolithionite, de Fourestier 388 (1999).  
zéolithe de Salpach = faujasite, Egleston 375 (1892).  
zéolithe de Suède = spodumene, Egleston 324 (1892).  
zéolithe d'Hellesta = apophyllite, Haüy III, 191 (1822).  
zéolithe du cap = prehnite, de Fourestier 388 (1999).  
zéolithe dure = analcime, Egleston 375 (1892).  
zéolithe efflorescente = laumontite, Haüy III, 150 (1822).  
zéolithe en aiguilles = natrolite, Egleston 227 (1892).  
zéolithe farineuse = laumontite, Egleston 183 (1892).  
zéolithe feuilletée = stilbite, Egleston 328 (1892).  
zéolithe fibreuse = natrolite, Egleston 375 (1892).  
zéolithe lamelleuse = heulandite, Egleston 154 (1892).  
zéolithe leucitique = analcime, Egleston 375 (1892).  
zéolithe nacrée = stilbite + heulandite, Egleston 375 (1892).  
zéolithe noir = gadolinite-(Y), Egleston 375 (1892).  
zéolithe radiée = natrolite, Egleston 227 (1892).  
zéolithe rayonnée = stilbite, Egleston 328 (1892).  
zéolithe rouge de Tyrol = stilbite or mordenite ?, Egleston 122 (1892).  
zéolithe rouge d'Upsal = laumontite, Egleston 183 (1892).  
zéolithe siliceuse = natrolite, de Fourestier 388 (1999).  
zeolithes lamellaris = apophyllite, Doelter II.1, 472 (1913).  
zeolithes particulis = gem lazurite ± calcite ± scapolite, de Fourestier 388 (1999).  
zéolithe tenace = okenite, Egleston 236 (1892).  
zéolithe terreuse = laumontite, de Fourestier 388 (1999).  
zéolithe verdâtre = prehnite, Dana 6th, 530 (1892).  
zeolithus albus cubicus Islandiae = chabazite, Dana 6th, 589 (1892).  
zeolithus caeruleus = gem lazurite ± calcite ± scapolite, Dana 6th, 432 (1892).  
zeolithus coerulens = gem lazurite ± calcite ± scapolite, Egleston 182 (1892).  
zeolithus crystallisatus albus = analcime, Clark 773 (1993).  
zeolithus lamellaris major = apophyllite, Dana 6th, 566 (1892).  
zeolithus vitreus electricus = tourmaline, Dana 6th, 551 (1892).  
zeolith von Hellesta = apophyllite, Dana 6th, 566 (1892).  
zeololites family = zeolite, R. Dixon, pers. comm. (1992).  
Zepharovichit = wavellite, AM 35, 1057 (1950).  
zepharowichite = wavellite, Des Cloizeaux II, 460 (1893).

Zepter-Amethyste = layered terminated quartz, LAP 21(9), 34 (1996).  
Zepterkristalle = layered terminated quartz, LAP 24(7/8), 49 (1999).  
Zepterquarz = layered terminated quartz + clay, Strunz 590 (1970).  
zeraltite = perovskite Ce-La-Nd-Al-Ti-O (slag), MM 33, 1158 (1964).  
Zeresin = hydrocarbon, Novitzky 55 (1951).  
zerhackter Quarz = quartz pseudomorph after baryte, Kipfer 155 (1974).  
zerkalik = gypsum, Bukanov 285 (2006).  
Zermattit = chrysotile or antigorite, Strunz 590 (1970).  
zerreibliche Bleyerde = cerussite, de Fourestier 388 (1999).  
zerrei blicher Uranokker = zippeite or uranopilite or rabejacite ?,  
Egleston 355 (1892).  
Zesijkupletskit = kupletskite-(Cs), Chudoba EIV, 15 (1974).  
Zettlitz Standard or Triumph = kaolinite, Robertson 35 (1954).  
zeugira = brushite, de Fourestier 388 (1999).  
zeugite = C-rich whitlockite pseudomorph after brushite, AM 28, 231  
(1943).  
Zeunerit (Weisbach) = metazeunerite, Dana 7th II, 989 (1951).  
zeupite = green acicular Fe<sup>3+</sup>-rich tourmaline, Lacroix 136 (1931).  
zeuxite = green acicular Fe<sup>3+</sup>-rich tourmaline, Dana 6th, 557 (1892); AM  
96, 911 (2011).  
Zeylanit = dark-green Fe<sup>2+</sup>-rich spinel, Dana 6th, 220 (1892).  
Zeylanith = dark-green Fe<sup>2+</sup>-rich spinel, Clark 773 (1993).  
Zeyringit = aragonite + aurichalcite, AM 48, 1184 (1963).  
zeyssatite = opal-CT, Dana 6th III, 56 (1915).  
Zhemchuzhnikovit = zhemchuzhnikovite, Kipfer 155 (1974).  
zhemchuzhnikovite = zhemchuzhnikovite, Chudoba EIII, 382 (1966).  
zhenhuaite (IMA 1984-048) = jiluanite, IMA 1994-042.  
zhenzhongite (IMA 1984-049) = jipingite, IMA 1994-041.  
Zhigulevskiy marble = massive gypsum, Bukanov 285 (2006).  
zhirovik = talc, Bukanov 313 (2006).  
zhonghuacerite = kukharenkoite-(Ce), RE 31, 3 (1997).  
zhonghuacerite-(Ce) = kukharenkoite-(Ce), AM 72, 1042 (1987), 78, 1112  
(1993).  
zhonghuaseriet = kukharenkoite-(Ce), Council for Geoscience 787 (1996).  
Zianit = kyanite, Dana 6th, 1134 (1892).  
Ziegelerde = halloysite-10Å + goethite, Haditsch & Maus 244 (1974).  
Ziegelerz (Werner) = cuprite + colloidal goethite ± ferrihydrite, Chester  
271 (1896).  
Ziegelerz (?) = cinnabar + dolomite, Hintze I.1, 681 (1900).  
ziegelite = cuprite + colloidal goethite ± ferrihydrite, MM 12, 394  
(1900).  
ziegueline = cuprite + colloidal goethite ± ferrihydrite, Aballain et al.  
381 (1968).  
zieguline = cuprite + colloidal goethite ± ferrihydrite, Kipfer 200  
(1974).  
zielonka = halite, Papp 105 (2004).  
ziemannita = tiemannite, de Fourestier 389 (1999).  
Zieselerz = goethite ± ferrihydrite, Haditsch & Maus 244 (1974).  
zietrinskite = hydrocarbon, Lacroix 136 (1931).  
zietrisikite = hydrocarbon, MM 13, 374 (1903).  
zietrisinkite = hydrocarbon, Papp 158 (2008).  
zigadit = albite, László 301 (1995).  
ziger = quartz, Haditsch & Maus 244 (1974).

ziguéline = cuprite + colloidal goethite ± ferrihydrite, Dana 6th, 206 (1892).

Zillerit = fibrous actinolite, AM 63, 1052 (1978).

zillerthite = fibrous actinolite, AM 63, 1052 (1978).

zillertite = fibrous actinolite, Aballain *et al.* 381 (1968).

zilver = silver, Hintze I.1, 220 (1898).

zilverglans = acanthite, Zirlin 28 (1981).

zimapanite = V-Cl ?, Dana 6th, 161 (1892).

zimech = gem lazurite ± calcite ± scapolite, de Fourestier 389 (1999).

Zimtstein = Fe-rich grossular, Haditsch & Maus 244 (1974).

zinalsite = fraipontite, CM 44, 1560 (2006).

zinc aéré = smithsonite, de Fourestier 389 (1999).

zincaluminite = zincaluminite, AM 50, 810 (1965).

zinc alum = dietrichite, Papp 17 (2004).

zincaluminite (questionable) = glaucocerinite + other, AM 50, 810 (1965); PDF 41-1361.

zincalunite (Kashkai) = hypothetical alunite  $ZnAl_6(SO_4)_4(OH)_{12}$ , MM 37, 967 (1970).

zincalunite (Omori & Kerr) = glaucocerinite + other, AM 50, 810 (1965); 51, 1825 (1966).

zinc and mercury sulpho selenide = polhemusite ?, MM 1, 90 (1877).

zinc-aragonite = aragonite + Zn-Fe-Mn-O, MM 28, 741 (1949).

zincbite = Zr-C-O, Strunz & Nickel 869 (2001).

zinc arsenate = köttigite or adamite, Egleston 177, 376 (1892).

zinc arséniaté = köttigite or adamite, Lacroix 136 (1931).

zincazurite = Zn-rich azurite ± zinkosite, Egleston 38 (1892).

Zinc-Bleispath = Zn-rich cerussite, Dana 6th, 286 (1892).

zinc blende = sphalerite, MM 43, 1053 (1980).

zinclödite = changoite, CM 44, 1560 (2006).

zinc bloom = hydrozincite, Dana 6th, 299 (1892).

zinclüthe = hydrozincite, Domeyko II, 294 (1897).

zincbotryogen = zincobotryogen, MM 35, 1161 (1966).

zinc bromide = unknown or synthetic  $ZnBr_2$ , MM 1, 90 (1877); Dana 6th, 161 (1892).

zinc calamine = hemimorphite, Dana 6th, 546 (1892).

zinc carbonaté = smithsonite or hydrozincite, Haüy IV, 181 (1822).

zinc carbonatée = smithsonite, Dana 6th, 549 (1892).

zinc carbonaté hydréux = hydrozincite, Egleston 161 (1892).

zinc chalcantite = synthetic  $(Zn,Cu)(SO_4) \cdot 5H_2O$ , Clark 774 (1993).

zinc chkalovite = synthetic pyroxene  $Na_2Zn[Si_2O_6]$ , MM 39, 932 (1974).

zinc chromite = zincochromite, MM 68, 515 (2004).

zinc-chromium spinel = Zn-Cr-rich spinel, MM 39, 931 (1974).

zinc chrysolite = Zn-rich fayalite, Dana 6th, 459 (1892).

zinc chrysotile = hypothetical serpentine  $Zn_3[Si_2O_5](OH)_4$ , MM 32, 987 (1961).

zinc-copper-chalcantite = synthetic  $(Zn,Cu)(SO_4) \cdot 5H_2O$ , AM 7, 74 (1922).

zincopperite =  $Zn_7Cu_4$ , AM 84, 992 (1999); MA 54, 3142 (2003).

zinc-copper-melanterite = Cu-rich zincmelanterite, AM 7, 74 (1922).

zinc cummingtonite = Zn-rich cummingtonite, Frondel 85 (1972).

zinc-cupro-chalcantite = synthetic  $(Zn,Cu)(SO_4) \cdot 5H_2O$ , Clark 775 (1993).

zinc-cupro-melanterite = Cu-rich zincmelanterite, Clark 775 (1993).

zincdibraunite = hydrohetaerolite, AM 60, 739 (1975).

zinc-epsomite = goslarite, MM 35, 1161 (1966).

zinc-fauserite = Zn-Mg-bearing mallardite, CM 44, 1560 (2006).

zincfayalite = Zn-rich fayalite (slag), Clark 218 (1993).  
zinc feldspar = synthetic  $\text{Ca}[(\text{ZnSi}_3)\text{O}_8]$ , AM 86, 21 (2001).  
zincferrite = franklinite, Clark 778 (1993).  
zinc-ferro-hexahydrite = Fe-rich bianchite, MM 32, 987 (1961).  
zinc-ferro-magnesio-hexahydrite = Fe-Mg-rich bianchite, MM 32, 987 (1961).  
zinc gahnite = gahnite, Ford 490 (1932).  
zinc glance = hemimorphite, Egleston 376 (1892).  
zinc hausmannite = hetaerolite, Dana 7th I, 715 (1944).  
Zinchenit = zinkenite, Haditsch & Maus 244 (1974).  
zinc-hexahydrite = bianchite, MM 32, 987 (1961).  
zinc hidrocarbonatado = hydrozincite, de Fourestier 389 (1999).  
zinc-hoegbomite = zincohögbomite-2N2S, AM 38, 426 (1953).  
zinc-högbomite = zincohögbomite-2N2S, MM 30, 748 (1955).  
zinc hidraté = hydrozincite, Egleston 161 (1892).  
zinc hidraté cuprifère = tyrolite, Egleston 354 (1892).  
zinc hydro-carbonaté = hydrozincite, Egleston 376 (1892).  
zincian high cubanite = isocubanite, de Fourestier 390 (1999).  
zincian lustre = hemimorphite, Bukanov 233 (2006).  
zincian prismatic barite = hemimorphite, Bukanov 233 (2006).  
zincian rhombohedral barite = smithsonite, Bukanov 241 (2006).  
zincian spinel = Fe-Mg-rich gahnite, CM 43, 601 (2005).  
zincian vredenburgite = hetaerolite + franklinite, Uyttenbogaardt & Burke 347 (1985).  
zinc iodide = unknown or synthetic  $\text{ZnI}_2$ , MM 1, 90 (1877); Dana 6th, 161 (1892).  
zinc-iron gahnite = Fe-rich gahnite, Ford 490 (1932).  
zinc iron spar = Fe-rich smithsonite, Egleston 318 (1892).  
Zinckchrysotil = hypothetical serpentine  $\text{Zn}_3[\text{Si}_2\text{O}_5](\text{OH})_4$ , Clark 777 (1993).  
Zinckenit = zinkenite, Chester 294 (1896).  
zinclavendulan = Zn-bearing lavendulan, CM 44, 1560 (2006).  
zinc lead spar = Zn-rich cerussite, Egleston 73 (1892).  
zinc-magnesia-chalcanthite = Zn-Mg-rich chalcanthite, AM 23, 175 (1938).  
zinc-manganese-cummingtonite = Zn-rich manganocummingtonite, AM 63, 1052 (1978).  
zinc-manganese-iron gahnite = Fe-Mn-rich gahnite, Ford 490 (1932).  
zinc-manganese spar = Zn-rich rhodochrosite, Bukanov 319 (2006).  
zinc-manganocalcite = Mn-Zn-rich calcite, MM 25, 648 (1940).  
zinc-mangano-cummingtonite = Zn-rich manganocummingtonite, Clark 775 (1993).  
zinc-melanterite = zincmelanterite, MR 39, 133 (2008).  
zinc mica = hendricksite, AM 51, 1120 (1966).  
zincnontronite = Zn-rich nontronite, MM 39, 931 (1974).  
zinc norbergite = synthetic  $\text{Zn}_3[\text{SiO}_4]\text{F}_2$ , Deer et al. 1A, 405 (1982).  
zinco = zinc, Dana 6th, 14 (1892).  
zincobotryogen =  $\text{ZnFe}(\text{SO}_4)_2(\text{OH}) \cdot 7\text{H}_2\text{O}$ , AM 49, 1776 (1964).  
zincocalcite = Zn-rich calcite, AM 15, 573 (1930).  
zincoferrite = franklinite, MM 19, 353 (1922).  
zincohadochrosite = Zn-rich rhodochrosite, Clark 778 (1993).  
zincohendricksite = hendricksite, CM 36, 909 (1998).  
zincohodochrosite = Zn-rich rhodochrosite, Clark 778 (1993).  
zincohögbomite-8H = zincohögbomite-2N2S, EJM 14, 393 (2002); CM 41, 802 (2003).

zincohögbomite-16H = zincohögbomite-2N6S, EJM 14, 393 (2002); CM 41, 802 (2003).

zincoligonite = Co-Zn-rich siderite, Bukanov 325 (2006).

zinc-olivenite (?) = Zn-rich olivenite, Kostov 186 (1989).

zinc olivine = synthetic  $Zn_2(SiO_4)$ , Deer et al. 1A, 161 (1982).

zinconigerite-6N6S =  $(Zn,Fe)_{18}(Al_{42}Sn_6)O_{90}(OH)_6$ , EJM 16, 247 (2004).

zinconine = hydrozincite, Chester 295 (1896).

zinconise = hydrozincite, Dana 6th, 299 (1892).

zincopperite = zinccopperite, Strunz & Nickel 869 (2001).

zinc ore = smithsonite, Bukanov 241 (2006).

zincorhodochrosite = Zn-rich rhodochrosite, MM 16, 376 (1913).

zincorodochrosite = Zn-rich rhodochrosite, Ford 520 (1932).

zincorodocroisite = Zn-rich rhodochrosite, MM 16, 376 (1913).

zincorodocrosite = Zn-rich rhodochrosite, Dana 6th III, 67 (1915).

zincorosasite = zincrosasite, Embrey & Fuller 391 (1980).

zinc orthosilicate = willemite, PDF 37-1485.

zincosite = zinkosite, AM 9, 62 (1924).

zincospinell = franklinite, LAP 24(6), 45 (2002).

zinc oxide = zincite, Egleston 377 (1892).

zinc oxidé ferrifère = franklinite or zincite, Egleston 130, 377 (1892).

zinc oxidé rouge = zincite, Egleston 377 (1892).

zinc oxidé silicifère = hemimorphite, Haüy IV, 175 (1822).

zinc oxydé (French) = zincite, Dana 6th, 208 (1892).

zinc oxydé (Haüy) = hemimorphite, Dana 6th, 546 (1892).

zinc oxydé ferrifère = zincite, Egleston 376 (1892).

zinc oxydé rouge = zincite, Egleston 376 (1892).

zinc oxydé silicifère = hemimorphite, Dana 6th, 546 (1892).

zinc oxysulphuret = wurtzite + organometallic zinc, Egleston 376 (1892).

zinc-phlogopite = hendricksite, AM 60, 152 (1975).

zinc phosphate = hopeite, Egleston 376 (1892).

zincpicrotephroite = Mg-Zn-rich tephroite, AM 68, 429 (1983).

zinc-pisanite = Cu-Zn-rich melanterite, MM 32, 987 (1961).

zincrhodochrosite = Zn-rich rhodochrosite, Bukanov 317 (2006).

zinc-rockbridgeite = Zn-rich rockbridgeite, MM 30, 748 (1955).

zincrodocrosita = Zn-rich rhodochrosite, de Fourestier 390 (1999).

zinc-roemerite = Zn-rich römerite, Dana 6th II, 89 (1909).

zinc-römerite = Zn-rich römerite, MM 13, 379 (1903).

zinc-romerite = Zn-rich römerite, Aballain et al. 384 (1968).

zincrosasite (questionable) =  $(Zn,Cu)_2(CO_3)(OH)_2$ , AM 44, 1323 (1959).

zincsandbergerite = Zn-rich freibergite, Godovikov 68 (1997).

zinc-saponite = sauconite, MM 29, 997 (1952).

zinc-schefferite = Zn-Mn-rich diopside, MM 12, 394 (1900).

zincselenide = stilleite, MM 27, 275 (1946).

zincsiderite =  $Fe^{2+}$ -rich smithsonite, Bukanov 241 (2006).

zinc silicate = hemimorphite or willemite, Egleston 61, 376 (1892).

zinc silicaté sulfaté = goslarite, de Fourestier 389 (1999).

zincsilite (questionable) = sauconite, AM 46, 241 (1961); PDF 29-1393.

zinc-spar = smithsonite, Chester 295 (1896).

zinc-spinel = gahnite, Dana 6th, 223 (1892).

zinc staurolite = Zn-rich staurolite, Egleston 326 (1892).

zinc-stottite = Zn-rich stottite, AM 56, 1488 (1971).

zinc sulfate = zinkosite, Thrush 1254 (1968).

zinc sulfaté = goslarite or zincmelanterite, Haüy IV, 198 (1822).

zinc sulfatée = goslarite, Dana 6th, 939 (1892).



zinc sulfuré = sphalerite, Haüy IV, 186 (1822).  
zinc sulfuré transposé = wurtzite, MR 39, 394 (2008).  
zinc sulphate = goslarite or zinkosite, Egleston 140, 377 (1892).  
zinc sulphide- $\alpha$  = wurtzite, Egleston 371 (1892).  
zinc sulphide- $\beta$  = sphalerite, Egleston 322 (1892).  
zinc sulphuret = sphalerite or wurtzite, Egleston 322, 371 (1892).  
zinc-teallite = teallite + wurtzite or sphalerite, AM 12, 381 (1927).  
zinc tirodite = Zn-rich manganocummingtonite, AM 63, 1052 (1978); MM 61, 309 (1997).  
zinc turquoise = faustite, Bukanov 161 (2006).  
zincum acidc aëro mineralisatum = smithsonite, Egleston 377 (1892).  
zincum acido aereo mineralisatum = smithsonite, Linck I.3, 3227 (1927).  
zincum acido aëro mineralisatum = smithsonite, Dana 6th, 279 (1892).  
zincum aeratum = smithsonite, Clark 777 (1993).  
zincum cum Fe, S, mineralisatum = sphalerite, Dana 6th, 59 (1892).  
zincum, Fe et S mineralisatum = sphalerite, Egleston 322 (1892).  
zincum mineralisatum blenda = sphalerite, de Fourestier 390 (1999).  
zincum mineralisatum calamina lamellosa = hemimorphite, de Fourestier 390 (1999).  
zincum mineralisatum calamina vulgaris = smithsonite, de Fourestier 390 (1999).  
zincum naturale calciforme = hemimorphite, Dana 6th, 546 (1892).  
zincum S, As, et Fe mineralisatum = sphalerite, Dana 6th, 59 (1892).  
zincum spatosum cinereum compactum electricum = hemimorphite, Dana 6th, 546 (1892).  
zincum spatosum cinereum electricum = hemimorphite, Egleston 377 (1892).  
zincum spatosum flavescens drusicum = hemimorphite, Dana 6th, 546 (1892).  
zincum sulphure, arsenico et ferro mineralisatum = sphalerite, Hintze I.1, 557 (1900).  
zinc vitriol = goslarite or zincmelanterite, Dana 6th, 939 (1892).  
zincvoltaite = zincvoltaite, Strunz & Nickel 869 (2001).  
zinc wagnerite = synthetic  $Zn_3Mg(PO_4)_2F_2$ , CM 12, 346 (1974).  
zinc white = zincite, Thrush 1254 (1968).  
zinc-zippeite = zinczippeite, MR 39, 133 (2008).  
Zinggen = transparent quartz, Kipfer 155 (1974).  
Zinglaserz = hemimorphite, Strunz & Nickel 869 (2001).  
Zink, gediegen = zinc, Dana 6th, 14 (1892).  
Zinkalaun = dietrichite, Doelter IV.2, 263 (1927).  
Zinkaluminat = zincaluminite, Doelter IV.2, 262 (1927).  
Zinkaluminiumspinell = gahnite, Haditsch & Maus 245 (1974).  
Zinkaluminiumsulfat-Dyskaiikosihydrat = dietrichite, Chudoba RI, 70 (1939); [I.3,4513].  
Zinkalunit (Omori & Kerr) = glaucocerinite + other, Chudoba EIII, 382 (1966).  
Zinkanorthit = synthetic feldspar, Doelter IV.3, 1173 (1931); [II.2,999].  
Zink-Aragonit = aragonite + Zn-Fe-Mn-O, Strunz 239 (1970).  
Zinkarseniat = köttigite, Dana 6th, 819 (1892).  
Zinkazurit = Zn-rich azurite  $\pm$  zinkosite, Dana 6th, 298 (1892).  
Zinkbaryt: See brachytyper (willemite), prismatischer (hemimorphite), rhomboedrischer (smithsonite).  
Zinkblände = sphalerite, Zirlin 105 (1981).  
Zinkbleispat = larsenite, Haditsch & Maus 245 (1974).  
Zinkbleispath = Zn-rich cerussite, Egleston 377 (1892).  
Zinkblende = sphalerite, Dana 6th, 59 (1892).

Zink-Bloom = hydrozincite, Linck I.3, 3353 (1929).  
Zinkblüt = hydrozincite, Doelter I, 452 (1911).  
Zinkblüte = hydrozincite, Dana 6th, 299 (1892).  
zinkbluthe = hydrozincite, Aballain et al. 383 (1968).  
Zinkboothit = Cu-rich zincmelanterite, Doelter IV.2, 297 (1927).  
Zinkbotryogen = zincobotryogen, MM 35, 1161 (1966).  
Zinkbromid = unknown or synthetic  $ZnBr_2$ , Hintze I.2, 2346 (1912).  
Zinkcarbonate = smithsonite, Doelter I, 443 (1911).  
Zinkchalkanthit = synthetic  $(Zn,Cu)(SO_4) \cdot 5H_2O$ , Doelter IV.2, 297 (1927).  
Zinkchromit = zincochromite, Doelter IV.2, 706 (1927).  
Zink-Chrom-Spinell = Zn-Cr-rich spinel, Chudoba EIV, 106 (1974).  
Zinkchrysotil = hypothetical serpentine  $Zn_3[Si_2O_5](OH)_4$ , MM 32, 987 (1961).  
Zinkcopiapit = zincocopiapite, MM 35, 1161 (1966).  
Zinkdibraunit = hydrohetaerolite, AM 60, 739 (1975).  
Zinkdolomit = minrecordite, LAP 34(10), 12 (2009).  
Zinkeisenerz = franklinite, Haditsch & Maus 245 (1974).  
Zinkeisenspat =  $Fe^{2+}$ -rich smithsonite, Kipfer 156 (1974).  
Zinkeisenspath =  $Fe^{2+}$ -rich smithsonite, Dana 6th, 279 (1892).  
Zinkeisenstein = franklinite, Kipfer 156 (1974).  
zinken = zinc, Egleston 376 (1892).  
Zink-Epsomit = goslarite, Chudoba EIII, 651 (1968).  
zinkesite = zinkosite, AM Index 41-50, 322 (1968).  
Zinkfahlerz = Zn-rich tennantite, Dana 6th, 137 (1892).  
Zinkfausenite = Zn-Mg-bearing mallardite, Papp 137 (2004).  
Zinkfauserint = Zn-Mg-bearing mallardite, MM 29, 997 (1952).  
Zinkfauserit = Zn-Mg-bearing mallardite, AM 35, 333 (1950).  
Zinkfayalit = Zn-rich fayalite (slag), Dana 6th, 459 (1892).  
Zinkferrit = franklinite, MM 35, 1161 (1966).  
Zinkferrohexahydrat = Fe-rich bianchite, Chudoba EIII, 383 (1966).  
Zinkferromagnesiohexahydrat = Fe-Mg-rich bianchite, Chudoba EIII, 383 (1966).  
zinkführender Todorokit = Zn-rich todorokite, Chudoba EIII, 383 (1966).  
Zinkgalmei = hemimorphite, László 301 (1995).  
Zinkgartrellit = zinggartrellite, LAP 26(2), 38 (2001).  
Zinkglas (?) = smithsonite, Dana 7th II, 176 (1951).  
Zinkglas (Hausmann) = hemimorphite, Clark 778 (1993).  
Zinkglaserz = hemimorphite, Dana 6th, 546 (1892).  
Zink-Grammit = hemimorphite, Clark 360 (1993).  
Zink-Hausmannit = hetaerolite, Hintze I.2, 2096 (1911).  
Zinkhexahydrat = bianchite, Chudoba EIII, 383 (1966).  
Zink-Högbommit = zincohögbomite-2N2S, Chudoba EII, 893 (1960).  
zink-hogbohmit = zincohögbomite-2N2S, Aballain et al. 383 (1968).  
Zink-Högbommit = zincohögbomite-2N2S, MM 32, 987 (1961).  
Zink-Hogbohmit = zincohögbomite-2N2S, MM 35, 1161 (1966).  
Zinkhydroorthosilicat = hemimorphite, Doelter II.1, 787 (1914).  
Zinkies = stannite, Chester 271 (1896).  
zinkisa = cassiterite, de Fourestier 391 (1999).  
zinkischer Carbonspat = smithsonite, Dana 7th II, 176 (1951).  
zinkisches Eisenerz = franklinite, Haditsch & Maus 245 (1974).  
Zinkit (original spelling) = zincite, Dana 6th, 208 (1892).  
Zinkjodid = unknown or synthetic  $ZnI_2$ , Hintze I.2, 2346 (1912).  
Zinkkarbonat = smithsonite, Doelter IV.3, 1114 (1931).  
Zinkkieselerz = hemimorphite, Dana 6th, 546 (1892).

Zink-Kupfer-Chalkanthit = synthetic (Zn,Cu)SO<sub>4</sub>·5H<sub>2</sub>O, Doelter IV.2, 298 (1927).  
Zink-Kupfer-Melanterit = Cu-rich zinmelanterite, Doelter IV.2, 297 (1927).  
Zinklavendulan = Zn-bearing lavendulan, LAP 32(4), 39 (2007).  
Zinklipscombit = zinclipscorbite, LAP 32(5), 54 (2007).  
Zinkmanganat = Zn-rich hausmannite, Hintze I.2, 2095 (1911).  
Zink-Mangan-Cummingtonit = Zn-rich manganocummingtonite, Chudoba EII, 470 (1955); [EI,752].  
Zinkmanganerz = woodruffite, AM 56, 1840 (1971).  
Zinkmanganit = Zn-rich hausmannite, Linck I.3, 3569 (1929).  
Zink-Manganocalcit = Mn-Zn-rich calcite, Chudoba EII, 437 (1955).  
Zink-Manganokalcit = Mn-Zn-rich calcite, MM 25, 648 (1940).  
Zinkmanganspat = Zn-rich rhodochrosite, Linck I.3, 3211 (1927).  
Zink-Melanterit (Larsen & Glenn) = zinmelanterite, Strunz 590 (1970).  
Zink-Melanterit (Strunz) = Zn-rich melanterite, Strunz 283 (1970).  
Zinkmontmorillonit = sauconite, MM 32, 987 (1961).  
Zinkobotryogen = zincobotryogen, Chudoba EIII, 383 (1966).  
Zinkocalcit = Zn-rich calcite, Doelter I, 280 (1911).  
Zinkocker = hemimorphite + smithsonite + goethite, Haditsch & Maus 245 (1974).  
Zinkocopiapit = zincocopiapite, Chudoba EIII, 384 (1966).  
Zinkoferrit = franklinite, Linck I.4, 66 (1921).  
Zinkokalcit = Zn-rich calcite, Aballain et al. 383 (1968).  
Zinkolivenit (Koechlin) = Zn-rich olivenite, Clark 778 (1993).  
Zinkolivenit (Weiss) = zincolivenite, LAP 32(12), 58 (2007).  
Zinkömerite = Zn-rich römerite, Clark 776 (1993).  
Zinkorhodochrosit = Zn-rich rhodochrosite, Chudoba EII, 455 (1955); [EI,753].  
Zinkorthophosphat-Tetrahydrat = hopeite, Doelter III.2, 441 (1922).  
Zinkorthosilicat = willemite, Doelter II.1, 781 (1914).  
Zinkoxyd (German) = zincite, Dana 6th, 208 (1892).  
Zinkoxyd (Klaproth) = hemimorphite, Dana 6th, 546 (1892).  
Zink Phosphat = hopeite, Egleston 156 (1892).  
Zinkphosphat-Tetrahydrat = hopeite, Chudoba RI, 71 (1939); [I.4,1223].  
Zinkphyllit = hopeite, Dana 6th, 808 (1892).  
Zink-Pisanit = Cu-Zn-rich melanterite, Strunz 590 (1970).  
Zinkrhodochrosit = Zn-rich rhodochrosite, Linck I.3, 3203 (1927).  
Zinkrockbridegit = Zn-rich rockbridgeite, Chudoba EII, 437 (1955).  
Zink-Römerit = Zn-rich römerite, MM 13, 379 (1903).  
zinkromerit = Zn-rich römerite, Aballain et al. 384 (1968).  
zinkrosacit = zincrosasite, Aballain et al. 384 (1968).  
Zinkrosasit (original spelling) = zincrosasite, MM 32, 987 (1961).  
Zinkroselith = zincroselite, Weiss 285 (1994).  
Zinksaponit = sauconite, Chudoba EII, 439 (1955).  
Zinkschefferit = Zn-Mn-rich diopside, Chudoba EII, 470 (1955); [EI,753].  
Zinkselenid = stilleite, MM 27, 275 (1946).  
Zink-Siderit = Fe<sup>2+</sup>-rich smithsonite, Strunz 236 (1970).  
Zinksilikat = hemimorphite, Haditsch & Maus 246 (1974).  
Zinksilit = sauconite, Chudoba EIII, 385 (1966).  
Zinksillit = sauconite, Chudoba RII, 144 (1971).  
Zinkspat = smithsonite, Doelter I, 443 (1911).  
Zinkspath = smithsonite, Dana 6th, 279 (1892).  
Zinkspinnell = gahnite, Linck I.4, 27 (1921).

Zinkstauroolith = Zn-rich staurolite, Hintze II, 428 (1890).  
Zinkstottit = Zn-rich stottite, Chudoba EIV, 107 (1974).  
Zinksulfat = zinkosite, Chudoba RI, 71 (1939); [I.4,4010].  
Zinksulfat-Heptahydrat = goslarite, Chudoba RI, 71 (1939); [I.3,4349].  
Zinksulfid-3C = sphalerite, Chudoba EIII, 386 (1966).  
Zinksulfid-3R = wurtzite-3R, Chudoba EIII, 204 (1965).  
Zinksulfidgel = white colloidal sphalerite, Chudoba EII, 59 (1954).  
Zinkteallit = teallite + wurtzite or sphalerite, MM 21, 581 (1928).  
Zinktitanit = Zn-rich titanite, de Fourestier 391 (1999).  
Zink-Viriol = goslarite, Clark 779 (1993).  
Zinkvitriol = goslarite or zincmelanterite, Dana 6th, 1134 (1892).  
Zinkvredenburgit = franklinite + hetaerolite, Strunz 180 (1970).  
Zinkwolframit = sanmartinite, MM 32, 987 (1961).  
Zink-Zippeit = zinczippeite, Weiss 285 (1994).  
Zinn, gediegen = tin, Dana 6th, 24 (1892).  
Zinnbisulfidsodalith = synthetic sodalite, Doelter IV.3, 1173 (1931); [II.2,283].  
Zinnenquarz = Sn-rich quartz, Kipfer 156 (1974).  
zinnernen Hut = secondary concentration of Sn, Hintze I.2, 1710 (1907).  
Zinnerz = cassiterite, Dana 6th, 234 (1892).  
Zinnfahlerz = Sn-Ag-rich tennantite, MM 33, 1158 (1964).  
Zinngranate = cassiterite, Hintze I.2, 1683 (1907).  
Zinngraupen = twinned cassiterite, Dana 6th, 235 (1892).  
zinnischen Fahl-Glanz = stannite, Hintze I.1, 1189 (1904).  
zinnischer Fahlglanz = stannite, Chudoba RI, 22 (1939).  
Zinnkies = stannite, Dana 6th, 83 (1892).  
Zinnkies I = stannoidite, Clark 294 (1993).  
Zinnkies-II = k esterite or ferrok esterite, Chudoba EII, 731 (1959).  
Zinnkies-III = stannoidite, Chudoba EII, 731 (1959).  
Zinnkies-IV = k esterite or ferrok esterite, Chudoba EII, 731 (1959).  
Zinnkupfer-Glanz = stannite, Clark 779 (1993).  
Zinnobel = red massive quartz + hematite, Papp 103 (2004).  
Zinnober = cinnabar, Dana 6th, 66 (1892).  
Zinnopel or Zinnopl = red massive quartz + hematite, Papp 103 (2004).  
Zinnsand = cassiterite, Dana 7th I, 574 (1944).  
Zinnsilicat = cassiterite, Hintze I.2, 1700 (1907).  
Zinnspat = cassiterite, Chudoba RI, 71 (1939).  
Zinnspath = cassiterite, Hintze I.2, 1683 (1907).  
Zinnstein = cassiterite, Dana 6th, 234 (1892).  
Zinnsten = cassiterite, Dana 6th, 234 (1892).  
Zinntantalit = wodginite ?, Chudoba EIII, 387 (1966).  
Zinntitanit (Ramdohr) = Sn-rich titanite, MM 24, 626 (1937).  
Zinntitanit (Weiss & Hofmann) = malayaite, LAP 28(10), 32 (2003).  
Zinnwaldit series = siderophyllite + polyolithionite, CM 36, 909 (1998).  
zinnwaldite (Mg) = Mg-rich siderophyllite or polyolithionite, AM 82, 498 (1997).  
Zinnw sche = cassiterite + others, Hintze I.2, 1683 (1907).  
Zinnzwitter = cassiterite, Haditsch & Maus 247 (1974).  
Zinopel = red massive quartz + hematite, Hintze I.2, 1378 (1905).  
Zinopl = red massive quartz + hematite, Papp 103 (2004).  
zinwaldite series = siderophyllite + polyolithionite, de Fourestier 391 (1999).  
Zionkstottit = Zn-rich stottite, Clark 779 (1993).  
zippeite-  = zippeite, CM 14, 430 (1976).

zippeite-(Na) = natrozippeite, Elements 4, 96 (2008).  
zippeite-nickel = nickelzippeite, Nickel & Nichols 250 (1991).  
Zippeit (Kruta) = tyuyamunite + clay, LAP 33(10), 36 (2008).  
zirantong = copper, LAP 28(8), 47 (2003).  
Zirasopal = red Fe-rich opal-CT, Doelter II.1, 253 (1913).  
zircão = zircon, Zirlin 117 (1981).  
zircarbite = Zr-C-O, Dana 6th, 1052 (1892).  
zirchelite = zirconolite, Zirlin 116 (1981).  
zircite = baddeleyite ± zircon, Atencio 48 (2000).  
Zircolite = synthetic white gem corundum, MM 39, 931 (1974).  
zircon-α = gem metamict zircon, MM 14, 48 (1904).  
zircon-β = zircon, MM 14, 48 (1904).  
zircon-γ = metamict zircon, MM 14, 48 (1904).  
zircone = zircon, CISGEM (1994).  
zirconeuxenite = zirconolite, MM 30, 749 (1955).  
zircon favas = baddeleyite, English 249 (1939).  
Zirconia (Swarovski *et al.*) = synthetic gem tazheranite, Read 245 (1988).  
zirconia (McMurdie *et al.*) = baddeleyite, PDF 37-1484.  
zirconia titanate = aeschynite, Pekov 20 (1998).  
zirconite = red-brown zircon, Dana 6th, 482 (1892).  
Zirconium = synthetic gem tazheranite, Nassau 239 (1980).  
Zirconium Di-Oxide = synthetic gem tazheranite, Nassau 364 (1980).  
zirconium montmorillonite = Zr-exchanged montmorillonite, CCM 27, 123 (1979).  
zirconium oxide = baddeleyite, Dana 7th I, 610 (1944).  
Zirconium Oxide = synthetic gem tazheranite, Nassau 364 (1980).  
Zirconium Spinel = synthetic Co-Cr-rich spinel, Bukanov 77 (2006).  
Zirconium Yttrium Oxide = synthetic gem tazheranite, Nassau 239 (1980).  
zirconoid (Ford) = zircon, Clark 780 (1993).  
zirconoid (Kostyleva) = metamict zircon, MM 25, 648 (1940).  
zirconoxyd = fibrous baddeleyite, Atencio 48 (2000).  
zirconoxydfavas = baddeleyite, Lacroix 24 (1931).  
zircon-pectolita = rosenbuschite, de Fourestier 391 (1999).  
zircon-pyroxene family = rosenbuschite + låvenite + wöhlerite, MM 16, 376 (1913).  
Zircon Spinel = blue spinel, Read 245 (1988).  
zircopal = Zr-rich opal, MM 33, 1158 (1964).  
zircosulphate (original spelling) = zircosulfate, AM 51, 529 (1966).  
Zirctone = synthetic blue-green gem corundum, Nassau 74 (1980).  
zirfesite = altered eudialyte, MM 61, 99 (1997).  
zirkelite = zirconolite, MM 53, 565 (1989).  
Zirkite = baddeleyite ± zircon, MM 18, 390 (1919).  
zirklerite (questionable) = (Fe,Mg,Ca)<sub>9</sub>Al<sub>4</sub>Cl<sub>18</sub>(OH)<sub>12</sub>·14H<sub>2</sub>O? MA 4, 14 (1929).  
Zirkoferrit = franklinite, Doelter III.2, 658 (1925).  
Zirkofillit = zircophyllite, Chudoba EIV, 107 (1974).  
Zirkon (original spelling) = zircon, Hintze I.2, 1628 (1907).  
Zirkonerde = baddeleyite, Hintze I.2, 1625 (1907).  
Zirkoneuxenid = zirconolite, Kipfer 156 (1974).  
Zirkoneuxenit = zirconolite, MM 30, 749 (1955).  
Zirkonfaves = baddeleyite, Dana 6th II, 12 (1909).  
Zirkonglaskopf = baddeleyite, Doelter III.1, 128 (1913).  
Zirkonit = zircon, Hintze I.2, 1637 (1907).  
Zirkonoid = metamict zircon, Chudoba EII, 440 (1955).

Zirkonolith = zirconolite, Strunz 192 (1970).  
Zirkonolith-30 = zirconolite-30, Weiss 283 (1998).  
Zirkonolith-3T/2M = zirconolite-3T or zirconolite-2M, Weiss 283 (1998).  
Zirkonoxyd = baddeleyite, Dana 7th I, 610 (1944).  
Zirkonoxyfaves = baddeleyite, Dana 6th II, 12 (1909).  
Zirkon-Pectolith = rosenbuschite, Dana 6th, 374 (1892).  
Zirkon-Pektolith = rosenbuschite, Dana 6th, 1134 (1892).  
Zirkon-Pyroxene family = rosenbuschite + låvenite + wöhlerite, Hintze II, 1140 (1893).  
Zirkonsulfat = zircosulfate, Kipfer 56 (1974).  
Zirkon-(Y) = Y-rich zircon, LAP 29(12), 30 (2004).  
zirkoon = zircon, Zirlin 116 (1981).  
Zirkopal = Zr-rich opal, Chudoba EIII, 388 (1966).  
Zirkophyllit = zircophyllite, MM 39, 932 (1974).  
Zirkosulfat = zircosulfate, Chudoba EIII, 388 (1966).  
Zirkosulphat = zircosulfate, Chudoba EIII, 388 (1966).  
zirlite = gibbsite, AM 47, 1223 (1962); 49, 1157 (1964).  
Zirpelglanz = bournonite, Doelter IV.1, 469 (1925).  
zirsite = altered eudialyte, AM 48, 1182 (1963); 49, 1157 (1964).  
zirskite = altered eudialyte, AM Index 41-50, 18 (1968).  
Zitrin = heated yellow gem Fe<sup>3+</sup>-rich quartz, Sinkankas 292 (1972).  
Zitronen-Chrysoprase = yellow-green quartz-mogánite mixed-layer + pimelite, LAP 31(9), 7 (2006).  
Zittavit = lignite (low-grade coal), MM 16, 376 (1913).  
zjemtsjoezjnikowiet = zhemchuzhnikovite, Council for Geoscience 787 (1996).  
zkokit = transparent quartz, de Fourestier 392 (1999).  
zlatoiskr = gem quartz ± mica ± chlorite ± hematite, Bukanov 154 (2006).  
zlatokley = chrysocolla, Bukanov 195 (2006).  
zloto = gold, MA 4, 339 (1930).  
zmeevik = serpentine, Bukanov 325 (2006).  
Zn-aluminate = gahnite, EJM 11, 501 (1999).  
Zn-amesite = fraipontite, AM 91, 1432 (2006).  
Zn-barysilite = synthetic ZnPb<sub>8</sub>[Si<sub>2</sub>O<sub>7</sub>]<sub>3</sub>, AM 52, 1083 (1967).  
Zn-biotite = Zn-Fe-Mn-rich phlogopite, CM 23, 492 (1985).  
Zn-blödite = changoite, MM 33, 1158 (1964).  
Zn-borazit = Zn<sub>3</sub>B<sub>7</sub>O<sub>13</sub>Cl, Clark 781 (1993).  
Zn,Cd-chkalovite = synthetic pyroxenoid Na<sub>4</sub>ZnCd[Si<sub>2</sub>O<sub>6</sub>]<sub>2</sub>, MM 39, 932 (1974).  
Zn-chkalovite = synthetic pyroxenoid Na<sub>2</sub>Zn[Si<sub>2</sub>O<sub>6</sub>], MM 39, 932 (1974).  
Zn-chlorite = baileychlore, AM 91, 1432 (2006).  
Zn-chromite = Zn-rich chromite, MM 57, 131 (1993).  
Zn-clinoptilolite = Zn-exchanged clinoptilolite, ClayM 46, 202 (2011).  
Zn clinopyroxene = petedunnite or Zn[Si<sub>2</sub>O<sub>6</sub>], AM 86, 21 (2001).  
Zn-Dolomit = Zn-rich dolomite, Strunz 238 (1970).  
Zn-Fahlerz = Zn-rich tetrahedrite, MM 39, 932 (1974).  
Zn-Fauserit = Zn-rich epsomite, LAP 21(7/8), 38 (1996).  
Zn feldspar = synthetic Ca[(ZnSi<sub>3</sub>)O<sub>8</sub>], AM 86, 21 (2001).  
Zn-ferrite = franklinite, EJM 11, 502 (1999).  
Zn-fluorrichterite = Zn-rich fluorrichterite, AM 55, 857 (1970).  
Zn-hectorite = sauconite ?, MA 54, 94 (2003).  
Zn-kupletskite = Zn-rich kupletskite, MM 70, 566 (2006).  
(Zn,Mg) orthopyroxene = Zn-rich enstatite, AM 66, 48 (1981).  
Zn-mica = hendricksite, AM 51, 1121 (1966).

Zn-montmorillonite = Zn-exchanged montmorillonite, CCM 31, 159 (1983).  
Zn-mordenite = Zn-exchanged mordenite, ClayM 46, 202 (2011).  
Zn-olivine = synthetic  $Zn_2(SiO_4)$ , Deer *et al.* 1A, 161 (1982).  
Zn-phlogopite = hendricksite, AM 60, 152 (1975).  
Zn-rockbridgeite = Zn-rich rockbridgeite, Kostov 184 (1989).  
Zn-saponite = sauconite, AM 90, 933 (2005).  
Zn schulenbergite = brianyoungite, de Fourestier 392 (1999).  
Zn-serpentine = hypothetical  $Zn_3[Si_2O_5](OH)_4$ , CM 13, 241 (1975).  
Zn<sup>2+</sup>-smectite = Zn-exchanged montmorillonite, CCM 31, 437 (1983).  
Zn-smectite = sauconite, MA 54, 94 (2003).  
Zn-spinel (Chattopadhyay) = Fe-rich gahnite, MM 63, 750 (1999).  
Zn-spinel (Lucchesi *et al.*) = Zn-rich spinel, MM 62, 43 (1998).  
Zn-spinel (Lucchesi *et al.*) = franklinite, EJM 11, 502 (1999).  
Zn-staurolite = zincostaurolite, MA 48, 4213 (1997).  
Zn-tennantite = Zn-rich tennantite, CM 28, 725 (1990).  
Zn-tetrahedrite = Zn-rich tetrahedrite, CM 28, 725 (1990).  
Zn<sup>2+</sup>-tetrahedrite = synthetic  $Cu_{10}Zn_2Sb_4S_{13}$ , MM 47, 441 (1983).  
Zn-umbozerite = Zn-rich umbozerite, MM 70, 574 (2006).  
Zn-zippeite = zinczippeite, AM 88, 682 (2003).  
Zöblitzer serpentine = lizardite, Egleston 310 (1892).  
Zöblitzit = lizardite, Dana 6th, 674 (1892).  
zoblitzite = lizardite, Dana 5th II, 63 (1882).  
zodite = Sb-rich tellurobismuthite, MM 32, 987 (1961).  
Zodskit = Sb-rich tellurobismuthite, Chudoba EII, 848 (1960).  
Zoelestin = celestine, Doelter IV.3, 1174 (1931).  
zoésite = quartz-mogánite mixed-layer, MM 16, 376 (1913).  
zoezit = quartz-mogánite mixed-layer, László 302 (1995).  
zoicita = zoisite, Zirlin 115 (1981).  
zoïdon = unknown, Hey 88 (1963).  
zoisite- $\alpha$  = Fe-rich zoisite, AM 70, 429 (1985).  
zoisite- $\beta$  = zoisite, AM 70, 429 (1985).  
zoisite-Mabc = clinozoisite, CM 16, 116 (1978).  
zoisite-(Pb) = synthetic  $Pb_2Al_3[Si_2O_7](SiO_4)O(OH)$ , AM 93, 575 (2008).  
zoisite-(Sr) = synthetic  $Sr_2Al_3[Si_2O_7]_2(SiO_4)O(OH)$ , AM 92, 1133 (2007).  
zoisititc epidote = pumpellyite-(Mg), AM 11, 218 (1926).  
zoizite = zoisite, Zirlin 114 (1981).  
zöldföld = celadonite or glauconite, László 302 (1995).  
zöldgránát = uvarovite or enstatite, László 92 (1995).  
zöldjáspis = green gem quartz  $\pm$  celadonite  $\pm$  chlorite  $\pm$  amphibole or actinolite or jadeite, László 118 (1995).  
zöldkvarc = Fe-rich quartz or green transparent fluorite, László 153 (1995).  
zöldólomérc = pyromorphite or mimetite, László 302 (1995).  
zöldónix = green quartz-mogánite mixed-layer, László 203 (1995).  
zöldvaskő = dufrénite or rockbridgeite, László 141 (1995).  
zöldvitriol = melanterite, László 302 (1995).  
Zölestin = celestine, MM 36, 135 (1967).  
zolestin = celestine, Aballain *et al.* 385 (1968).  
zolfo = sulphur- $\alpha$ , Hintze I.1, 73 (1898).  
zoned agate = banded quartz-mogánite mixed-layer, Egleston 281 (1892).  
zonite = banded quartz, MM 39, 932 (1974).  
Zonoasphalt = vermiculite, Robertson 36 (1954).  
zonochlorite = pumpellyite-(Mg), MM 30, 132 (1953).  
zonoklorit = pumpellyite-(Mg), László 302 (1995).

Zonolex = vermiculite, Robertson 36 (1954).  
Zonolite = vermiculite-10Å, MM 21, 581 (1928).  
Zonoplax = vermiculite, Robertson 36 (1954).  
zonotlite = xonotlite, MM 30, 749 (1955).  
zoot = halite, de Fourestier 392 (1999).  
Zootinsalz = nitratine, Dana 7th II, 300 (1951).  
zootinus kalicus = niter, Hintze I.3, 2715 (1916).  
zootinus natronicus = nitratine, Hintze I.3, 2684 (1916).  
zorgite (Brooke & Miller) = clausthalite + umangite + tiemannite ± chalcomenite, AM 15, 84 (1930).  
zorgite (Glocker) = K-Fe-Al-Si-O-H, Clark 782 (1993).  
zorodon = unknown, MM 1, 90 (1877).  
Zpysa-Salz or Zpyza-Salz = halite, Papp 105 (2004).  
Zr-aegirine = Zr-rich aegirine, MM 64, 459 (2000).  
Zr-arfvedsonite = Zr-rich arfvedsonite, MM 64, 459 (2000).  
Zr-D = hainite, Atencio 82 (2000).  
Zr-garnet = kimzeyite, EJM 13, 749 (2001).  
Zr-montmorillonite = Zr-exchanged montmorillonite, CCM 27, 122 (1979).  
Zr-schorlomite = Zr-rich schorlomite, AM 65, 188 (1980).  
Zr-Ti-cuspidine = Zr-Ti-rich cuspidine, EJM 8, 1199 (1996).  
zsarcsihit = zharchikhite, László 302 (1995).  
zsemcsuzsnyikovit = zhemchuzhnikovite, László 302 (1995).  
zsírkő = talc, László 302 (1995).  
ZSM-5 = mutinaite, AM 83, 909 (1998).  
ZSM-23 = synthetic SiO<sub>2</sub>, EJM 22, 827 (2010).  
ztincowoodwardite = zincowoodwardite, Strunz & Nickel 870 (2001).  
Zuber = halite + clay, Hintze I.2, 2195 (1911).  
žubkovity = tetradymite, Papp 125 (2004).  
Zuckerquarz = sugar quartz, LAP 34(5), 7 (2009).  
zufre = sulphur-α, Hintze I.1, 73 (1898).  
zuisang = gem lazurite ± calcite ± scapolite, Egleston 182 (1892).  
zujwite = glass (tektite), Bukanov 327 (2006).  
Zultanite = chatoyant diaspore, GJ 17(1), 5 (2008).  
Zündererz = jamesonite ± stibnite ± metastibnite ± pyrargyrite, Clark 336 (1993).  
Zundererz = jamesonite ± stibnite ± metastibnite ± pyrargyrite, Dana 7th I, 454 (1944).  
zungite = zunyite, Thrush 1258 (1968).  
zunichus = gem lazurite ± calcite ± scapolite, de Fourestier 392 (1999).  
zuñita = zunyite, Novitzky 369 (1951).  
zunite = massive quartz + hematite, Schumann 13 (1977).  
zunjiet = zunyite, Council for Geoscience 787 (1996).  
župkovite = tetradymite, Papp 125 (2004).  
zurlite = åkermanite or gehlenite, Dana 6th, 474 (1892).  
zurlonite = åkermanite or gehlenite, Chester 296 (1896).  
zurtite = åkermanite or gehlenite, Chester 296 (1896).  
zussmanite-β = zussmanite, MM 43, 259 (1979).  
zvezdovik = corundum, Bukanov 48 (2006).  
zvjagincevit = zvyagintsevite, László 302 (1995).  
Zvyaginsevit = zvyagintsevite, Chudoba EIII, 651 (1968).  
Zvyagintserit = zvyagintsevite, Kipfer 56 (1974).  
zvyagintsivite = zvyagintsevite, CM 8, 541 (1966).  
zwaarspaat = baryte, Zirlin 28 (1981).  
zwavel = sulphur-α, Zirlin 104 (1981).



Zweckendruse = calcite, Linck I.3, 2895 (1926).  
Zweckenkopf = calcite, Haditsch & Maus 247 (1974).  
Zweckenspat = calcite, Haditsch & Maus 247 (1974).  
Zweckenzinn = cassiterite, Hintze I.2, 1698 (1907).  
zweiachsiges Arsen = arsenolamprite, Doelter III.1, 608 (1914).  
zweiachziger Glimmer = muscovite, Dana 6th, 614 (1892).  
Zweierketten (2 chain) group = pyroxene, Deer *et al.* 2A, 601 (1978).  
zweifach kohlen-saures Ammoniak = teschemacherite, Hintze I.3, 2749 (1916).  
zweiselite = zwieselite, Dana 8th, 845 (1997).  
zwezelite = zwieselite, Clark 194 (1993).  
Zwischenprodukt = weathered pyrrhotite, AM 56, 1297 (1971).  
Zwischenzirkon = zircon, Chudoba EIV, 108 (1974).  
Zwieselit (original spelling) = zwieselite, Dana 6th, 777 (1892).  
Zwitter = twinned cassiterite, Dana 6th, 235 (1892).  
Zwitterstock = cassiterite, Hintze I.2, 1686 (1907).  
Zyanit = kyanite, Kipfer 156 (1974).  
Zygadit = albite, Dana 6th, 330 (1892).  
Zykait = zýkaite, Weiss 289 (2008); MR 39, 134 (2008).  
Zylonite = plastic, O'Donoghue 840 (2006).  
zylite = massive quartz + hematite, R. Dixon, pers. comm. (1992).  
Zyprin = pale-blue vesuvianite, Haditsch & Maus 247 (1974).  
zyprisches Erz = copper, Kipfer 156 (1974).