

GENERUM ET SPECIERUM MINERALIUM,
SECUNDUM ORDINES NATURALES DIGESTORUM

SYNOPSIS,

OMNIUM, QUOTQUOT ADHUC REPERTA SUNT, MINERALIUM
NOMINA COMPLECTENS.

ADJECTIS SYNONYMIS ET VETERIBUS ET RECENTIORIBUS AC
NOVISSIMARUM ANALYSIUM CHEMICARUM SUMMIS.



SYSTEMATIS MINERALIUM NATURALIS
PRODROMUS.

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ERNESTUS FRIDERICUS GLOCKER.

SINGULA QUAEQUE LOCUM TENEANT SORTITA DECENTER.
HORATIUS.

○ HALAE SAXONUM
APUD EDUARDUM ANTON.
MDCCCXLVII.

Ordo VI. PYRITAE.

Pyrite.

(Pyritoidei. Kiese.)

I. PYRITAE LEUCONICOLINI.

Leukonikolinische Pyrite.

(Leuconicolopyritae. Leukonikolopyrite. Weisse et graue nikolinische Pyrite.)

(Pond. sp. = 5,1 — 7,1.)

1. Bismuthoncolites. *) (Wismuthnickelkies.)

Spec. 1. Bismuthoncolites Saynensis.

Saynischer Wismuthnickelkies.

Nickelwismuthganz; v. Kobell.

2. Ullmannites. (Ullmannit s. Nickelantimonkies.)

Spec. 1. Ullmannites eutomus.

Eutomer Ullmannit.

Nickelspiessglanzers; Ullmann. Nickelantimonglanz; v. Leonh. Antimonnickelglanz. Antimonnickelkies s. antimonischer Markasit; Br. Eutomer Kobaltkies; M. Ullmannit; Fröbel. Antimoine sulfuré nickelfère; H.

Comp. ch. Ullmannitae Harzgerodensis auctore
Rammelsbergio: 50,84 cent. antimonii, 29,43
nicoli, 2,65 arsenici, 1,83 ferri, 17,38 sulphuris.
(Poggend. Ann., Vol. LXIV. 1845. p. 189.)

3. Gersdorffites. (Gersdorffit s. Nickelarsenikkies.)

Spec. 1. Gersdorffites vulgaris.

Gemeiner Gersdorffit. $\text{Ni} \begin{matrix} (\text{As}^2 \\ \text{S}^2) \end{matrix}$

Nickelglanz; Pfaff. Nickelarsenikkies. Arseniknickelglanz. Weisses Nickel-
erz. Synthetischer Markasit; Br. Gersdorffit; Löwe. Disosmose; Beud.
Nickel gris.

Gersdorffites vulgaris crystallo-morphus auctore L ö -
wio continet, 49,85 c. arsenici, 26,14 nicoli, 9,55
ferri, 14,13 sulphuris; Gersdorffites vulg. Harzge-
rodensis auctore Rammelsbergio: 44,0 arsenici,
30,3 nicoli, 6,0 ferri, 18,83 sulphuris. (Rammelsb.
Repert. H. II. 1845. p. 102. 104.)

*) Barbara vox *Niculum* revera est crux nomenclaturae; nam evitari nequit, quin ex hac voce nomina componantur ab elegantia longe remota, quibus ut lectores veniam dare velint enixe rogo.

Spec. 2. **Gersdorffites Amoibites.**

Nickelreicher Gersdorffit. $\text{Ni}^2 \begin{cases} \text{As}^3 \\ \text{S}^2 \end{cases}$

Amolbit; v. Kobell.

Auctore Francisco de Kobell Gersdorffites Amoibites Stebensis Bavariae compositus est ex 45,34 cent. arsenici, 37,34 nicoli, 2,5 ferri, 14,0 sulphuris, 0,82 plumbi. (Erdm. Journ., Vol. XXXIII. 1844. p. 202 sqq.)

Appendix. Wodanopyrites (*Wodankies*; Br.), Gersdorffitae affinis, parum cognitus.

4. **Leuconicolites.** (*Weissnickelkies.*)Spec. 1. **Leuconicolites Schneebergensis.**

Schneeberger Weissnickelkies.

Weissnickelkies; Br. Weissnickelerz; Hausm. Arseniknickel ex parte. Weisser Kupfernickel.

Haec species, ut Breithauptius nuperrime docuit, a Chloanthite differt systemate crystallino rhombico et majori pondere spec. = 7,1 sed communem cum eo habet compositionem chemicam. Ni As. (Poggend. Ann., Vol. LXIV. 1845. p. 184.)

5. **Chloanthites.** (*Chloanthit.**)Spec. 1. **Chloanthites dystomus.**

Dystomer Chloanthit.

Chloanthit; Br. Weissnickelerz et Weissnickelkies ex parte. Arseniknickel ex parte. Weisser Kupfernickel ex parte. Nickelarseniet; Kersten. Rammelsbergit; Haid.

Systemate crystallino cubico, pond. sp. = 6,4 — 6,5. Ni As. Igitur Nicolum arseniferum simplex in Chloanthite et Leuconicolite dimorphum est. (Loc. cit.)

II. PYRITAE COBALTINI.

Kobaltische Pyrite.

(*Cobaltopyritae. Kobaltopyrite.*)

(Pond. sp. = 4,9 — 6,6.)

6. **Smaltites.**)** (*Smaltit s. Speiskobalt.*)

*) Nomen a *Breithauptio* apte formatum, efflorescentiam hujus speciei viridem significans.

***) Nomen *Smaltites* id spectat, quod ex hujus generis speciebus praecipue pigmentum caeruleum smalti nomine pernotum conficitur.

Spec. 1. **Smaltites vulgaris.****Gemeiner Speiskobalt.**

Kobaltkies et kobaltischer Markasit; Br. Oktaedrischer Kobaltkies; M. Arsenikkobalt. Cobalt arsenical; H.

Structura cubica indistincta, duritie inter Apatitae et Orthoclasii duritiem, pond. sp. = 6,3 — 7,0.
Co As.

Subsp. 1. **Sm. v. candidus. (Weisser gem. Speiskobalt.)**

Weisser Speiskobalt; W. Smaltine; Beud.

Pond. sp. = 6,3 — 6,6; colore candido stanni; comp. ch.: 74 c. arsenici, 20,8 cobalti, 3 — 4 ferri.

Subsp. 2. **Sm. v. sidericus. (Siderischer gem. Speiskobalt.)**

Grauer Speiskobalt; W. Eisenspeiskobalt. Eisenkobaltkies.

Pond. sp. = 6,9 — 7; colore ravo chalybis; comp. ch.: 70 c. arsenici, 13,9 cobalti, 10 — 18 ferri.

Safflorites (*Safflorit*; Br.; *strahliger et fasriger Speiskobalt*), pondere sp. = 7 — 7,3, huc pertinere videtur; magnopere enim dubitandum est, an systemate crystallino rhombeo sit, ut propter structuram fibrosam nonnulli putaverunt.

Spec. 2. **Smaltites praedurus.****Harter Speiskobalt.**

Hartkobalterz; Hausm. Tesseralkies et paratomer Markasit; Br. Arsenikkobaltkies; Scheerer. Skutterudit; Haid.

Structura cubica distincta, duritie Orthoclasii, pond. sp. = 6,7 — 6,8; colore candido stanni; comp. ch.: 79,2 arsenici, 20,8 cobalti. $Co^2 As^3$.

Spec. 3. ***Smaltites bismuthifer.****Wismuthiger Speiskobalt.**

Wismuthspeiskobalt. Wismuthkobaltkies; Br. Kobaltwismuth. Wismuthkobalt. Kerstenit; Haid.

Structura cryst. cubica et radiata, pond. sp. = 6 — 7; colore candido stanni, colori ravo plumbi appropinquante; comp. ch.: 77,9 cent. arsenici, 9,9 cobalti, 4,7 ferri, 3,9 bismuthi, 1,3 cupri, 1,1 nicoli, 1,0 sulphuris.

Spec. 4. ***Smaltites nicolifer.****Nickelhaltiger Speiskobalt.**

Nickelspeiskobalt. Stürjan s. nickelreicher Markasit; Br.

Structura cubica distincta, duritie Apatitae, pond. sp. = 7,0; nicolum continens.

7. **Cobaltites.*)** (Kobaltit s. Glanzkobalt.)Spec. 1. **Cobaltites eutomus.***Eutomer Glanzkobalt.*

Glanzkobalt; W. Kobaltglanz; Hausm. Hexaedrischer Kobaltglanz; M. Eumorpher Markasit; Br. Cobalt gris; H. Cobaltine; Beud. Bright white Cobalt; Phill.

8. **Cobaltopyrites.** (Kobaltkies.)Spec. 1. **Cobaltopyrites Müsensis.***Müsenscher Kobaltkies.*

Schwefelkobalt von Müsen, Kobaltkies; Hausm. Isometrischer Kobaltkies; M. Glaukogener Markasit; Br. Linnéit; Haid.

III. PYRITAE ARSENOPYRITOIDEI.

Arsenikkiesartige Pyrite.

(*Arsenopyritae. Arsenopyrite.*)

(Pond. sp. = 6,0 — 7,1.)

9. **Arsenosiderites.**)** (Arsenosiderit.)Spec. 1. **Arsenosiderites axotomus.***Axotomer Arsenosiderit.*

Eisenarsenik; Klaproth. Axotomer Arsenikkies; M. Glanzarsenikkies; Br. Arsenikalkies; Weiss, Leukopyrit; Shepard, Löllagit; Hald. Arsenical Pyrites; Phill.

Subsp. 1. **A. axot. vulgaris.** (*Gemeiner axot. Arsenosiderit.*)

Arsenikalischer Goldkies; Brückmann.

T. Scheererus duas distinguit Arsenosideritae axotomi vulgaris varietates chemicas, quarum alteram (Reichensteinensem) formula $Fe^{\Gamma}As^3$, alteram (Norwegicam) formula $Fe As^2$ designat.

Subsp. 2. **A. axot. nicolifer.** (*Nickelhaltiger axot. Arsenosiderit.*)

Schladminger Arsenosiderit. Hoffmannit; Fröbel.

Praeter arsenicum 13,5 c. ferri, 13,4 nicoli et 5 cobalti continet.

*) Nomen *Cobaltites* huic generi imposui, quia multo majorem cobalti copiam continet, quam *Smaltites*, cui proxime affinis est. *Cobaltopyrites* autem a duobus his generibus eo maxime differt, quod ex solo cobalto sulphurato constat, id quod nomine ejus ipso significatur.

**) Vix mihi hoc genus distinctius significari posse videtur quam nomine *Arsenosiderites*, quo essentialis ejus substantia ex arsenico et ferro constans exprimitur.

10. **Arsenopyrites.** (*Arsenikkies.*)Spec. 1. **Arsenopyrites vulgaris.***Gemeiner Arsenikkies.*

Arsenikkies; W. Prismatischer Arsenikkies; M. Giftkies. Rauschgelbkies. Mispickel. Fer arsenical; H. Mispickel; Beud. Arsenical Iron; Phill. Pseudargyrum. Pyrites cineraceus.

*Var. 1. A. vulg. officinalis.**) (*Officineller gem. Arsenikkies.*)

Annotatio. Vermontites, Dalarnites et Acontites (*Vermontit, Dalarnit, Akontit; Br.*) varietates Arsenopyritae vulgaris officinalis esse censentur, crystallorum angulis paululum differentes.

Var. 2. A. vulg. argentifer. (*Silberhaltiger gem. Arsenikkies.*)

Weisserz; W. Silberarsenikkies.

Spec. 2. **Arsenopyrites cobaltifer.***Kobaltischer Arsenikkies.*

Kobaltarsenikkies; Th. Scheerer.

Cobalti immixti 5—9 centesimae.

Danaïtes (*Danaït; Hayes*) ad Arsenopyriten cobaltiferum pertinere videtur.

11. **Plinianus.** (*Plinian.*)Spec. 1. **Plinianus eutomus.***Eutomer Plinian.*

Plinian s. Triteltes Plinianus; Br.

Novissime a Breithauptio detectus et descriptus, crystallis plagiorthombicis ($\angle 61^{\circ} 30'$), plerumque tabulaeformibus, pond. sp. = 6,3—6,4; auctore Plattnero ex 45,46 cent. arsenici, 34,46 ferri et 20,07 sulphuris constans, igitur chemica compositione cum Arsenopyrite vulgari congruens, quo fit, ut Arsenopyrites vulg. et Plinianus eut. mineralia dimorpha sint, uterque $\text{FeS}^2 + \text{FeAs}^2$. (Poggend. Ann., Vol. LXIX. 1846. p. 443 sqq.)

Appendix ad tribum Arsenopyritoideorum.

1. *Kausimkies; Br.* Ex arsenico, ferro, an-

*) Sic cognominatus propter multiplicem hujus subspeciei Arsenopyritae vulgaris usum, qui est in officinis aeriis.

timonio et sulphure constare creditus, pondere sp. = 5; incerti generis et loci.

2. **Arsenomanganon.** (*Arsenikmangan; Kans. Kansit; Haid.*) Ex 51,8 c. arsenici et 45,5 mangani compositus; parum cognitus.

IV. PYRITAE SIDERICI.

Siderische Pyrite.

(*Syderopyritae. Sideropyrite. Schwefelkiesartige Pyrite.*)

(Pond. sp. = 4,0 — 5,1.)

12. **Marcasita.***) (**Markasit s. Rhombeneisenkies.**)

Spec. 1. **Marcasita polymorpha.****)

Polymorpher Markasit.

Speerkies, Kammkies, Strahlkies, Leberkies; W. Wasserkies; Hausm. Prismatischer Eisenkies; M. Blnarkies; Weiss. Markasit; Haid. Prismatischer Markasit; Br. Graueisenkies (Poliopyrites). Vitriolkies. Fer sulfuré blanc; H. White Iron Pyrites; Phill. Cockscomb pyrites. Marcasita ex parte. Actinopyrites; Fröbel.

Var. 1. M. p. lamellosa. (*Blättriger pol. Markasit.*)

Speerkies. Kammkies. Zellkies ex parte.

Var. 2. M. p. radiato-fibrosa. (*Strahlig-faseriger p. M.*)

Strahlkies.

Var. 3. M. p. solida. (*Dichter p. M.*)

Leberkies.

Appendix. 1. Kyrosites (*Kyrosit; Br.*) nihil aliud esse videtur quam Marcasita polymorpha immixtis exiguis Arsenopyritae vulgaris et cupri particulis paululum immutatus; nam et forma crystallina et compositione chemica cum Marcasita polym. congruit. Est inter Kyrositen et Leucochalcosideriten dystomum quaedam similitudo, unde alter cum altero facile confunditur.

*) Quamquam vetusto nomine *Marcasitae* utrumque ferri sulphurati genus, et cubicum et rhombicum comprehendi solebat, tamen aptissimum esse puto, nomen illud auctore *Haidingero* soli ferro sulphurato rhombico in posterum tribui, ut tandem determinata sit hujus generis denominatio, postquam pluribus iisque minus aptis nominibus laboraverat. Qua de re si convenerit inter mineralogos, nomen alterum *Sideropyritae*, quamvis ad utrumque genus referri potest, tamen unice tribui licebit ferro sulphurato cubico, germanice vulgo *Schwefelkies* dicto.

**) Propter multiplices formas, quas offert, sic dictus.

2. **Hydropyrites.** (*Weicheisenkies*; *Br. Wasserkies*; *Gl.*) Marcasitae quidem simillimus, sed aqua admixta minorique et duritie et pondere spec. allisque notis distinctus. (Poggend. Ann., Vol. LV. 1842. p. 489 sq.) Quum autem dubitari possit, aquam Hydropyritae admixtam ad veram ejus substantiam pertinere, nondum pro rato haberi potest, Hydropyriten peculiare Pyritarum genus esse. Saepenumero, licet non semper, mutatione quadam ex Marcasita polymorpha eum procreari verisimile est. Nihilominus aes simplex est, quapropter scriptor quidam de mineralogia meritissimus magnopere fefellit contendens, Hypropyriten a Breithauptio et me descriptum ex heterogenis rebus mechanice compositum esse.

13. **Sideropyrites.** (*Sideropyrit* s. *Schwefelkies*.)

Spec. 1. **Sideropyrites vulgaris.**

Gemeiner Schwefelkies.

Gemeiner Schwefelkies; W. Hexaedrischer Eisenkies; M. Pyrit. Schwefeleisen. Goldkies. Fer sulfuré; H. Pyrite martiale. Iron Pyrites; Phill. Pyrites.*) Xanthopyrites. Marcasita ex parte.

Appendix. Selenopyrites. (*Selenkies*.) Dubius; in fodina Tilkerodensi repertus esse fertur.

14. **Magnetopyrites.** (*Magnetkies*.)

Spec. 1. **Magnetopyrites varians.**)**

Farbenändernder Magnetkies.

Magnetkies; W. Rhomboedrischer Eisenkies; M. Hexagonaler Eisenkies; Naum. Magnetischer Pyrrhotin; Br. Fer sulfuré magnétique; H. Magnetic Iron Pyrites; Phill.

Var. 1. M. v. cutomus. (Blättriger f. M.)

Bodenmaisensis auctore comite F. Schaffgotsch

= $\text{Fe}^{\text{o}} \frac{1}{2} \text{Fe}$. (Poggend. Ann., Vol. L. 1840. p. 536 sq.)

*) Nomine *πυρίτης*, *Pyrites* apud veteres non tantum Sideropyrites, sed etiam Chalcopyrites intelligebatur. (Dioscorides *περί ἑλ. ἱατρ.* V. 143. Plin. hist. nat. XXXVI. 19.) Contra nomen *πυρίτης* (fem.), *Pyritis* silicem excludendis scintillis aptum (s. Quarzum pyrigonum) significabat.

***) Sic dictus, quia colorem in superficie variat.

Var. 2. M. v. vulgaris. (Geminer f. M.)

Comp. ch. Magnetopyritae variantis vulgaris Fal-
lunensis auctore Plattner: 59,72 c. ferri, 40,22
sulphuris. (Loc. cit., Vol. XLVII. 1839. p. 371.)
Auctore Berzelio = $\text{Fe}^{\text{b}}\text{Fe}$ et $\text{Fe}^{\text{c}}\text{Fe}$.

15. Nicolosiderites. *) (Nickelcisenkies.)**Spec. 1. Nicolosiderites norwegicus.***Norwegischer Nickelcisenkies.*

Eisennickelkies; Th. Scheerer.

Systemate cryst. cubico, pond. sp. 4,6; auctore
T. Scheerero compositus ex 40,86 c. ferri,
22,28 nicoli, 36,86 sulphuris. $2\text{Fe} + \text{Ni}$, formula
probabilis. (Poggend. Ann., Vol. LVIII. 1843. p.
315 sq.)

16. *Leucochalcociderites. (Weiskupfercisenkies.)**Spec. 1. Leucochalcociderites dystomus.***Dystomer Weiskupfercisenkies.*

Weiskupfererz; W. Kupfercisenkies.

17. *Cubanus. (Cuban.)**Spec. 1. Cubanus euchoneutus.**)**

Cuban; Br.

Structura cubica, pond. sp. 4,0; secundum analysis
a Scheidhauero institutam compositus ex 42,51
c. ferri, 22,96 cupri, 34,78 sulphuris. (Poggend.
Ann., Vol. LIX. 1843. p. 325 sq. Vol. LXIV. 1845.
p. 280.) Formula Rammelsbergio auctore:
 $\text{Cu}\text{Fe} + 2\text{Fe}$. (Rammelsb. Report., H. II. p. 40.)

V. PYRITAE CUPROSI.*Kupferkiesartige Pyrite.**(Chalcopyritae. Chalkopyrite.)*

(Pond. sp. = 4,1 - 5,1.)

18. Chalcopyrites. (Chalkopyrit s. Kupferkies.)*) Brevitatis causa pro *Nicolosideropyrites*.**) *Κυχωμεντός*, facite igne liquescens. Nam species supra dicta facillime funditur.

Spec. 1. **Chalcopyrites vulgaris.***Gemeiner Kupferkies.* Cu^{Fe} .

Kupferkies; W. Pyramdaler Kupferkies; M. Gelbes Kupfererz. Cuivre pyriteux; H. Chalcopyrite; Beud. Copper Pyrites; Phill. Pyrites auri coloris.

Chalcopyrites vulg. Reinsbergensis Saxoniae auctore Kersteno selenium immixtum habet. (Poggend. Ann., Vol. XLVI. 1839. p. 279 sq.)

Nierenkies; Br. (Blistered Copper) nihil aliud quam Chalcopyrites vulgaris reniformis et stalactiticus esse videtur.

19. **Poecilopyrites.** (Poikilopyrit s. Buntkupfererz.)Spec. 1. **Poecilopyrites cryptotomus.*)***Cryptotomes Buntkupfererz.*

Buntkupfererz; W. Oktaedrischer Kupferkies; M. et Naum. Kupferlebererz. Bornit; Haid. Cuivre pyriteux hépatique; H. Phillipsite; Beud. Purple Copper; Phill.

Poecilopyrites cryptotomus Connecticutensis auctore Littono continet: 61,22 c. cupri, 11,91 ferri, 26,65 sulphuris. (Poggend. Ann., Vol. LV. 1842. p. 115 sq.) Poecilopyrites cr. Redruthensis auctore Chodnewo: 57,89 cupri, 14,94 ferri, 26,84 sulphuris. (Loc. cit. Vol. LXI. 1844. p. 396.)

Poecilopyrites quum omnium generum Pyritarum proxime affinis sit nonnullis generibus ordinis Lampritarum, utrumque ordinem inter se conjungit.

20. ***Domeykites.** (Domeykit.)Spec. 1. **Domeykites chilensis.***Chilenischer Domeykit.*

Arsenikkupfer; Zinken. Weisskupfer; Hausm. Domeykit; Haid. Arseniure de cuivre; Domeyko.

Auctore Domeyko compositus ex 71,64 cent. cupri et 28,36 arsenici. Cu^3As . (Ann. des mines; 4 Sér. T. III. 1843. p. 3 sq.) Non sufficienter descriptus nec bene cognitus.

*) Propter structuram crystallinam valde indistinctam ac vix observandam ita cognominatus.

VI. PYRITAE XANTHONICOLINI.

*Xanthonicolinische Pyrite.**(Xanthicolopyritae. Xanthonicolopyrite. Gelbe et rothe nicolinische Pyrite.)*

(Pond. sp. = 5,28—8,0.)

21. Trichopyrites. (*Trichopyrit s. Haarkies.*)Spec. 1. **Trichopyrites orichalcoides.***Messinggelber Haarkies.*

Haarkies; W. Gediegen Nickel; Klaproth. Nickelkies; Hausm. Schwefelnickel. Thionischer Pyrrhotin s. Gelbnickelkies; Br. Müllerit; Hald. Nickel natif; H. Sulphuret of Nickel; Phill.

Comp. ch. Trichopyritae orich. Kamsdorfensis (pond. sp. = 5,65) auctore Rammelsbergio: 61,54 c. nicoli, 33,79 sulphuris, 1,73 ferri, 1,14 cupri. (Rammelsb. Repert. H. I. 1843. p. 67.)

22. *Tombacites. (*Tombazit.*)Spec. 1. **Tombacites Lobensteinensis.***Lobensteinischer Tombacit.*

Tombazit et tombaciner Markasit; Br.

23. Placodinus. (*Placodiu.*)Spec. 1. **Placodinus cryptotomus.***Kryptotomer Placodin.*

Placodit; Br.

Systemate crystallino plagiorhombico (prismatis angul. 64°32'), crystallis praesertim tabulaeformibus (unde nomen, a graeca voce πλακώδης); Plattner o auctore compositus ex 57,0 c. nicoli, 39,7 arsenici, 0,9 cobalti, 0,8 cupri, 0,6 sulphuris. Ni² As. (Poggend. Ann., Vol. LIII. 1841. p. 631 sq. Vol. LVIII. 1843. p. 282 sq.) Prope Müsenum repertus.**24. Pyrrhonicolites.** (*Rothenickelkies.*)Spec. 1. **Pyrrhonicolites cryptotomus.***Kryptotomer Rothenickelkies.*

Kupfernichel; W. Nickelkies. Prismatischer Nickelkies; M. Arsenischer Pyrrhotin; Br. Arsenknickel. Pyrrhopyriten; Fröbel. Nickel arsenical; H. Nickeline; Beudant.

25. Nicolostibites. (*Nickelantimon.*)Spec. 1. **Nicolostibites rutilus.***Hellrothes Nickelantimon.*

Antimonnickel; Hausm. et Stromeyer. Antimonischer Pyrrhotin; Br. Breithauptinus; Fröbel.