

# NOVUS FOSSILIVM INDEX

RATIONES PONDERIS, CAPACITATIS

ET

OXYGENII PARTIVM CONSTITVTIVARVM OSTENDENS,

*CUJVS PARTEM QVINTAM*

CONSENSV AMPLISSIMÆ FACVLTATIS PHILOSOPHICÆ

*PRÆSIDE*

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CHIMICÆ PROFESSORE AD ACAD. IMP. ABOENSEM EMERITO, ORDINVM  
IMPERIALIVM DE S:<sup>TA</sup> ANNA IN II:<sup>DA</sup> CLASSE ET DE S:<sup>TO</sup> VOLODIMIRO IN  
IV:<sup>TA</sup> CLASSE EQVITE; ACAD. IMP. SCIENT. PETROPOLITANÆ, SOCIET. IMP.  
LIB. OECOVOM. PETROPOL., SOCIETAT IMP. PHARMACEVT. PETROPOL.,  
SOCIET. IMP. MINERALOG. PETROPOL. SOCIET. IMP. NATURE STUDIOSORVM  
MOSCOVITICÆ, SOCIET. IMP. AGRICVLT. MOSCOVIT., SOCIET. IMP.  
OECOVOM. FENNICÆ, ET. PLVRIVM ACADEMIAR. AC SOCIETAT.  
SCIENTIAR. EXOTICARVM MEMBRO

PRO GRADV PHILOSOPHICO

PUBLICO EXAMINI SVBJICIT

*STENO EDVARDVS SJÖMAN*

BOREA-FENNO.

IN AVDITORIO PHIOS. DIE XXVIII MAJI MDCCCXXVII.

A. M.

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ABOÆ.

TYPIS FRENCKELLIANIS.

# T H E S E S.

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## I.

Mutationes, quas per vires extrinsecus sibi illatas subeunt corpora anorganica, quasque in aliis corporibus sibi adjunctis efficere valent, notas exhibent characteristicas, quibus sæpenumero illa perspicue definiri possunt, atque cum cognatis et dissimilibus vel heterogeneis comparari.

## II.

Veram speciei identitatem in fossilibus nonnisi tum concipimus, cum ex analysi chemica cognoscimus, in singulis easdem inveniri, æquali proportione inter se conjunctas partes, quas nomine *constitutivarum* designare solent,

## III.

Quia sic intelligimus composita esse fossilia æquabilia, et naturam eorum dependere ab heterogeneis partibus, quæ justa se invicem quietæ manere, nec sua sponte ulterius transformari videntur, nullum est dubium, quin harum quoque consideratio justæ fossilium dispositioni in systemate philosophico aptissime inserviat.

## IV.

Fossilia in quibus partes heterogenæ visu discerni queunt, jure considerari solent ut ex diversis inter se aggregatis speciebus coalita, sive ex communi latice simul emanavisse, sive aliæ successive aliis adjectæ et intermixtæ fuisse censeantur.

## V.

Corpora diversa per analysin chemicam e fossilibus deprompta, ratione ponderum quidem partes horum constitutivas representant, plerumque vero ab his, alio respectu, plus minus differunt, quoniam sub secretionem varie transformantur.

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|                       |         |                     |     |                     |                            |
|-----------------------|---------|---------------------|-----|---------------------|----------------------------|
| Demantspath,          |         |                     |     |                     |                            |
| lichter               | 36.     | al. (si. fe.)       | 11. | al. (si. fe.)       | <i>Al. (Fe. Si.)</i>       |
| Devonitus             | —       | al. ph. Aq.         | —   | al. ph.             |                            |
| — —                   | —       | al. ph. (fl.) Aq.   | —   | al. ph. (fl.)       |                            |
| — —                   | —       | — —                 | 12. | — —                 | <i>Ph. Al. (Fl.)</i>       |
| Diallage metal-       |         |                     |     |                     |                            |
| loïde                 | 34.     | si. al. fe. mg.     | 9.  | si. al. mg. fe.     | <i>Si. Al. Fe. Mg.</i>     |
| — —                   | —       | si. al. fe. ca. mg. | —   | si. al. fe. ca. mg. | <i>Si. Al. Fe. Ca. Mg.</i> |
| — —                   | —       | si. mg. fe. Aq.     | —   | si. mg. fe.         | <i>Si. Mg. Fe.</i>         |
| Diallage verte        | —       | si. ca. al. ch.     | —   | si. ca. al. mg.     | <i>Si. Al. Ca. Ch.</i>     |
|                       |         | mg. fe. (cu.)       |     | ch. fe.             | <i>Mg. Fe.</i>             |
| Dialogitus            | 18.     | mn. ch. (si. ca.)   | 2.  | cb. mn.             | <i>Cb. Mn.</i>             |
| — —                   | —       | mn. si. cb.         | 20. | mn. si. cb.         | <i>Mn. Si. Cb.</i>         |
| Diamant               | xxviii. | Ch.                 | 11. | Ch.                 |                            |
| Diaspore              | 36.     | al. fe. Aq.         | 11. | al. fe.             | <i>Al. Fe.</i>             |
| Dichroïtus            | 34.     | si. al. fe. mg.     | 9.  | si. al. fe. mg.     | <i>Si. Al. Fe. Mg.</i>     |
|                       |         | (ca. mn.)           |     |                     |                            |
| — —                   | —       | si. al. mg. fe.     | —   | si. al. mg. fe.     | <i>Si. Al. Mg. Fe.</i>     |
| Diopsitus             | —       | si. mg. ca. fe.     | —   | si. mg. ca. fe.     | <i>Si. Mg. Ca. Fe.</i>     |
| Dioptase              | 12.     | cu. si. Aq.         | 24. | cu. si.             |                            |
| — —                   | —       | — —                 | 9.  | si. cu.             | <i>Si. Cu.</i>             |
| Diploïtus             | 34.     | si. al. ca. po.     | —   | si. al. ca. po.     | <i>Si. Al. Ca. Po.</i>     |
|                       |         | mn. mg. Aq.         |     | mn. mg.             | <i>Mn. Mg.</i>             |
| Dipyre                | —       | si. al. ca. Aq.     | —   | si. al. ca.         | <i>Si. Al. Ca.</i>         |
| Disthène              | 36.     | al. si. (fe.)       | 11. | al. si.             | <i>Al. Si.</i>             |
| Dolomitus             | 28.     | cb. ca. al. (mg.)   | 2.  | cb. ca. al.         | <i>Cb. Ca. Al.</i>         |
| Dolomitus             | —       | cb. ca. mg.         | —   | cb. mg. ca.         | <i>Cb. Mg. Ca.</i>         |
| — —                   | —       | — —                 | —   | cb. ca. mg.         | <i>Cb. Ca. Mg.</i>         |
| <i>Ecume de mer</i>   | 34.     | si. mg. (cb.) Aq.   | 9.  | si. mg.             | <i>Si. Mg.</i>             |
| <i>Ecume de terre</i> | 40.     | ca. cb. si. (fe.)   | 2.  | cb. ca. si.         | <i>Cb. Ca. Si.</i>         |
| Edelitus              | 34.     | si. al. ca. fe. Aq. | 9.  | si. al. ca. fe.     | <i>Si. Al. Ca. Fe.</i>     |
| — —                   | —       | si. ca. al. fe. Aq. | —   | si. ca. al. fe.     | — —                        |
| Edingtonitus          | —       | si. al. ca. (al-    | —   | si. al. ca.         | <i>Si. Al. Ca.</i>         |
|                       |         | kali.) Aq.          |     |                     |                            |
| Egeranus              | —       | si. ca. al. fe. mg. | —   | si. al. ca. fe. mg. | <i>Si. Al. Ca. Fe. Mg.</i> |
|                       |         | (mn. po.)           |     |                     |                            |
| — —                   | —       | si. ca. al. so.     | —   | si. ca. al. so.     | <i>Si. Ca. Al. So.</i>     |
|                       |         | mn. (fe.)           |     | mn.                 | <i>Mn.</i>                 |

E

Eisenblau



|                      |         |                          |      |                                    |                                       |
|----------------------|---------|--------------------------|------|------------------------------------|---------------------------------------|
| Eisenblau            | 13.     | fe. ph. Aq.              | 18.  | fe. ph.                            |                                       |
| — —                  | —       | — —                      | 12.  | — —                                | <i>Ph. Fe.</i>                        |
| <i>Eisenblüthe</i>   | 40.     | ca. cb. Aq.              | 2.   | cb. ca.                            | <i>Cb. Ca.</i>                        |
| Eisenbohnerz         | 13.     | fe. si. al. (mn.)<br>Aq. | 18.  | fe. si. al.                        | <i>Fe. Si. Al.</i>                    |
| Eisenchrom           | 24.     | ch. fe.                  | 19.  | ch. fe.                            | <i>Ch. Fe.</i>                        |
| — —                  | —       | ch. fe. al. (si.)        | —    | ch. fe. al.                        | <i>Ch. Fe. Al.</i>                    |
| — —                  | —       | — —                      | 18.  | fe. ch. al.                        | — —                                   |
| — —                  | 13.     | fe. ch. al. (si.)        | —    | fe. al. ch.                        |                                       |
| — —                  | —       | — —                      | 19.  | — —                                | <i>Ch. Al. Fe.</i>                    |
| Eisenglanz           | —       | fe.                      | 18.  | Fe <sup>3</sup> . O <sup>8</sup> . | <i>Fe.</i>                            |
| Eisenglimmer         | —       | fe.                      | —    | Fe <sup>4</sup> . O <sup>3</sup> . | <i>Fe.</i>                            |
| Eisenkiesel          | 34.     | si. fe. Aq.              | 9.   | si. fe.                            | <i>Si. Fe.</i>                        |
| <i>Eisenkiesel</i>   | —       | si. mn. fe.              | —    | si. mn. fe.                        | <i>Si. Mn. Fe.</i>                    |
| Eisenocker           | 13.     | fe. si. (al.) Aq.        | 18.  | fe. si.                            | <i>Fe. Si.</i>                        |
| Eisenpecherz         | —       | fe. as. su. Aq.          | —    | fe. su. as.                        | <i>Fe. Su. As.</i>                    |
| — —                  | —       | — —                      | —    | — —                                | <i>Fe. As. Su.</i>                    |
| — —                  | —       | fe. su. Aq.              | —    | fe. su.                            | <i>Fe. Su.</i>                        |
| Eisenrahm,<br>rother | —       | fe.                      | —    | Fe <sup>4</sup> . O <sup>3</sup> . | <i>Fe.</i>                            |
| — —                  | —       | fe. si.                  | —    | fe. si.                            | <i>Fe. Si.</i>                        |
| Eisensinter          | —       | fe. as. su. Aq.          | —    | fe. su. as.                        | <i>Fe. Su. As.</i>                    |
| — —                  | —       | — —                      | —    | — —                                | <i>Fe. As. Su.</i>                    |
| Eisenspath           | —       | fe. cb.                  | 2.   | cb. fe.                            | <i>Cb. Fe.</i>                        |
| — —                  | —       | fe. cb. mn.              | —    | cb. fe. mn.                        | <i>Cb. Fe. Mn.</i>                    |
| — —                  | —       | fe. cb. ca. (si.)        | —    | cb. fe. ca.                        | <i>Cb. Fe. Ca.</i>                    |
| Eisenstein, blau     | 34.     | si. fe. so. (ca.)<br>Aq. | 9.   | si. fe. so.                        | <i>Si. Fe. So.</i>                    |
| Eisentitan           | 25.     | ti. fe. (mn)             | 25.  | ti. fe. (mn)                       | <i>Ti. Fe. (Mn.)</i>                  |
| <i>Eis-spath</i>     | 34.     | si. al. so.              | 9.   | si. al. so.                        | <i>Si. Al. So.</i>                    |
| Eis-stein            | 45.     | so. fl. al.              | 1.   | fl. so. al.                        | <i>Fl. Al. So.</i>                    |
| Ekebergitus          | 34.     | si. al. ca. so.          | 9.   | si. al. ca. so.                    | <i>Si. Al. Ca. So.</i>                |
| Elæolithus           | —       | si. al. so. po.<br>(fe.) | —    | si. al. so. po.                    | <i>Si. Al. So. Po.</i>                |
| — —                  | —       | si. al. po. Aq.          | —    | si. al. po.                        | <i>Si. Al. Po.</i>                    |
| Elateritus           | xxviii. | Cb. O. H.                | ii.  | Cb. H. O.                          |                                       |
| <i>Electrum</i>      | —       | Cb. O. H.                | —    | H. Cb. O.                          |                                       |
| — —                  | —       | Cb. H. O.                |      |                                    |                                       |
| Electrum             | iii.    | Au. Ag.                  | xli. | Au. Ag.                            |                                       |
| Emeraude             | 34.     | si. al. be.              | 9.   | si. al. be.                        | <i>Si. Al. Be.</i><br><i>Emeraude</i> |

|                            |         |                            |       |                            |                                    |
|----------------------------|---------|----------------------------|-------|----------------------------|------------------------------------|
| <i>Emeraude de Bresile</i> | 54.     | si. al. fe. ca.<br>(mn.)   | 9.    | si. al. fe. ca.            | <i>Si Al Fe Ca.</i>                |
| Emeril                     | 56.     | al. (fe. si.)              | 11.   | al. (si. fe.)              | <i>Al. (Si. Fe.)</i>               |
| Endellione                 | vi.     | Pb. Sb. Su. Cu.            | vi.   | Su. Pb. Cu. Sb.            |                                    |
| Epidote arenacé            | 54.     | si. al. fe. ca.            | 9.    | si. al. ca. fe.            | <i>Si. Al. Fe. Ca.</i>             |
| — d'Arendal —              | —       | si. fe. al. ca.<br>(mn.)   | —     | si. al. fe. ca.            | — —                                |
| Epidote de St. Marcel      | —       | si. fe. al. ca. mn.        | —     | si. al. fe. ca. mn.        | <i>Si. Al. Fe. Ca. Mn.</i>         |
| Epidotus                   | —       | si. al. fe. ca.            | —     | si. al. ca. fe.            | <i>Si. Al. Ca. Fe.</i>             |
| — —                        | —       | si. al. ca. fe.            | —     | — —                        | — —                                |
| Epistilbitus               | —       | si. al. ca. (so)<br>Aq.    | —     | si. al. ca. (so.)          | <i>Si. Al. Ca. (So.)</i>           |
| Erde, Lemnische            | —       | si. al. fe. so. Aq.        | —     | si. al. fe. so.            | <i>Si. Al. Fe. So.</i>             |
| — Sinopische               | —       | si. al. fe. (so.)<br>Aq.   | —     | si. al. fe.                | <i>Si. Al. Fe.</i>                 |
| Erdkobalt                  | 10.     | co.                        | 21.   | Co'. O'.<br>Co. Mn.        | <i>Co.</i>                         |
| — —                        | —       | co. mn. Aq.                | —     | co. mn.                    | <i>Co. Mn.</i>                     |
| <i>Erdkobalt</i>           | 18.     | mn. si. al. co. Aq.        | 20.   | mn. si. al. co.            |                                    |
| Erdöl                      | xxviii. | Cb. H.                     | ii.   | H. Cb.                     |                                    |
| Erdpech                    | —       | Cb. H. O.                  | —     | Cb. H. O.                  |                                    |
| Erlanus                    | 54.     | si. ca. al. fe.<br>mg. so. | 9.    | si. al. ca. mg.<br>fe. so. | <i>Si. Al. Ca. Fe.<br/>Mg. So.</i> |
| Eschwegitus                | 13.     | fe. si.                    | —     | si. fe.                    | <i>Si. Fe.</i>                     |
| Essonitus                  | 54.     | si. ca. al. fe.            | —     | si. ca. al. fe.            | <i>Si. Al. Ca. Fe.</i>             |
| Etain oxydé                | 14.     | sn.                        | 56.   | Sn'. O'.                   | <i>Sn.</i>                         |
| Etain oxydé<br>concretioné | —       | sn. fe.                    | —     | sn. fe.                    | <i>Sn. Fe.</i>                     |
| Eucairitus                 | vii.    | Ag. Se. Cu.                | xiii. | Se. Cu. Ag.                |                                    |
| Euchroitus                 | 12.     | cu. as. Aq.                | 24.   | cu. as.                    |                                    |
| — —                        | —       | —                          | 29.   | — —                        | <i>As. Cu.</i>                     |
| Euclasius                  | 54.     | si. al. be. (fe.)          | 9.    | si. al. be.                | <i>Si. Al. Be.</i>                 |
| Eudialytus                 | —       | si. so. zr. ca. fe.        | —     | si. so. ca. zr. fe.        | <i>Si. So. Zr. Ca. Fe.</i>         |
| Fackel-kohle               | xxviii. | Cb. H. A.                  | ii.   | H. Cb. A.                  |                                    |
| — —                        | —       | Cb. O. H. A.               | —     | Cb. H. O. A.               |                                    |
| Fahlunitus durus           | 54.     | si. al. mg. Aq.            | 9.    | si. al. mg.                | <i>Si. Al. Mg.</i>                 |

|                       |      |                       |     |                       |                              |
|-----------------------|------|-----------------------|-----|-----------------------|------------------------------|
| Fahlunitus durus      | 54.  | si. al. mg. fe.       | 9.  | si. al. mg. fe.       | <i>Si. Al. Mg. Fe.</i>       |
| Fahlunitus nigricans  | —    | si. al. fe. (mg.)     | —   | si. al. fe. (mg.)     | <i>Si. Al. Fe. (Mg.)</i>     |
|                       |      | Aq.                   |     |                       |                              |
| Farina montana        | —    | si. al. fe. Aq.       | —   | si. al. fe.           | <i>Si. Al. Fe.</i>           |
| — vulcanica           | —    | si. mg. al. (ca.)     | —   | si. mg. al.           | <i>Si. Mg. Al.</i>           |
|                       |      | Aq.                   |     |                       |                              |
| Faserblende           | xvi. | Zn. Su. Fe. (Pb.)     | vi. | Su. Zn. Fe.           |                              |
| Faserdatolith         | 40.  | ca. si. bo. Aq.       | 9.  | si. ca. ho.           | <i>Si. Ca. Bo.</i>           |
| Fasergyps             | 27.  | su. ca. Aq.           | 6.  | su. ca.               | <i>Su. Ca.</i>               |
| Faserkalk             | 40.  | ca. cb.               | 2.  | cb. ca.               | <i>Cb. Ca.</i>               |
| Faserzeolith          | 54.  | si. al. ca. Aq.       | 9.  | si. al. ca.           | <i>Si. Al. Ca.</i>           |
| — —                   | —    | si. al. so. ca.       | —   | si. al. ca. so.       | <i>Si. Al. Ca. So.</i>       |
|                       |      | Aq.                   |     |                       |                              |
| Federalaun            | 27.  | su. al. fe. (po.)     | 6.  | su. al. fe.           | <i>Su. Al. Fe.</i>           |
|                       |      | Aq.                   |     |                       |                              |
| Feldspath apyre       | 56.  | al. si. fe.           | 11. | al. si. fe.           | <i>Al. Si. Fe.</i>           |
| — —                   | —    | al. si. po. (fe.)     | —   | al. si. po.           | <i>Al. Si. Po.</i>           |
| Feldspath argiliforme | 54.  | si. al. (ca.)         | 9.  | si. al.               | <i>Si. Al.</i>               |
| Feldspath bleu        | 29.  | ph. al. mg. (si.)     | 11. | al. ph. mg.           |                              |
| — —                   | —    | — —                   | 12. | — —                   | <i>Ph. Al. Mg.</i>           |
| — —                   | 36.  | al. si. mg. (ca.)     | 11. | al. si. mg.           | <i>Al. Si. Mg.</i>           |
|                       |      | Aq.                   |     |                       |                              |
| Feldspath nacré       | 54.  | si. al. po. (ca.)     | 9.  | si. al. po.           | <i>Si. Al. Po.</i>           |
| — tenace              | —    | si. al. fe. so. (ca.) | —   | si. al. fe. so. (ca.) | <i>Si. Al. Fe. So. (Ca.)</i> |
| — —                   | —    | si. al. ca. fe. so.   | —   | si. al. ca. fe. so.   | <i>Si. Al. Ca. Fe. So.</i>   |
|                       |      | (mg.)                 |     | (mg.)                 | (Mg.)                        |
| Feldstein             | —    | si. al. fe. so. (ca.) | —   | si. al. fe. so. (ca.) | <i>Si. Al. Fe. So. (Ca.)</i> |
| — —                   | —    | si. al. ca. fe. so.   | —   | si. al. ca. fe. so.   | <i>Si. Al. Ca. Fe. So.</i>   |
|                       |      | (mg.)                 |     | (mg.)                 | (Mg.)                        |
| — —                   | —    | si. al. ca. so.       | —   | si. al. ca. so.       | <i>Si. Al. Ca. So.</i>       |
|                       |      | (fe.) Aq.             |     |                       |                              |
| — —                   | —    | si. al. po. (fe.)     | —   | si. al. po.           | <i>Si. Al. Po.</i>           |
| — —                   | —    | si. al. po. fe.       | —   | si. al. po. fe.       | <i>Si. Al. Fe. Po.</i>       |
|                       |      | (ca.) Aq.             |     |                       |                              |
| Felsitus              | —    | si. al. ca. so.       | —   | si. al. ca. so.       | <i>Si. Al. Ca. So.</i>       |
|                       |      | (fe.) Aq.             |     |                       |                              |
| Feltspathum           | —    | si. al. ca.           | —   | si. al. ca.           | <i>Si. Al. Ca.</i>           |
| Feltspathum           | —    | si. al. po.           | —   | si. al. po.           | <i>Si. Al. Po.</i>           |



|                                  |       |                     |        |                                    |                            |
|----------------------------------|-------|---------------------|--------|------------------------------------|----------------------------|
| <i>Feltspathum album</i>         | 54.   | si. al. so. ti.     | 9.     | si. al. so. ti.                    | <i>Si. Al. So. Ti.</i>     |
| <i>Feltspathum compactum</i>     | —     | si. al. po. fe.     | —      | si. al. po. fe.                    | <i>Si. Al. Po. Fe.</i>     |
| <i>Feltspathum pavonaceum</i>    | —     | si. al. ca. fe. so. | —      | si. al. ca. fe. so.                | <i>Si. Al. Ca. Fe. So.</i> |
| — —                              | —     | si. al. ca. so.     | —      | si. al. ca. so.                    | <i>Si. Al. Ca. So.</i>     |
| <i>Fensterglimmer</i>            | —     | si. al. po. fe.     | —      | si. al. po. fe.                    | <i>Si. Al. Po. Fe.</i>     |
| <i>Fer arseniaté</i>             | 15.   | fe. as. Aq.         | 18.    | fe. as.                            | <i>Fe. As.</i>             |
| <i>Fer arsenical</i>             | xiii. | Fe. As.             | xviii. | Fe. As.                            |                            |
| <i>Fer arsenical argentifère</i> | —     | Fe. As. Ag. (Sb.)   | —      | Fe. As. Ag.                        |                            |
| <i>Fer azuré</i>                 | 15.   | fe. ph. Aq.         | 18.    | fe. ph.                            |                            |
| — —                              | —     | — —                 | 12.    | — —                                | <i>Ph. Fe.</i>             |
| <i>Fer carbonaté</i>             | —     | fe. cb.             | 2.     | cb. fe.                            | <i>Cb. Fe.</i>             |
| <i>Fer chromaté</i>              | —     | fe. ch. al. (si.)   | 18.    | fe. al. ch.                        |                            |
| — —                              | —     | — —                 | 19.    | — —                                | <i>Ch. Al. Fe.</i>         |
| — —                              | 24.   | ch. fe. al. (si.)   | —      | ch. fe. al.                        | <i>Ch. Fe. Al.</i>         |
| <i>Fer muriaté</i>               | 54.   | si. fe. mn. mu. Aq. | 9.     | si. fe. mn. mu.                    | <i>Si. Fe. Mn. Mu.</i>     |
| <i>Fer oligiste</i>              | 15.   | fe.                 | 18.    | Fe <sup>3</sup> . O <sup>8</sup> . | <i>Fe.</i>                 |
| <i>Fer oxydé noir vitreux</i>    | —     | fe si. Aq.          | —      | fe. si.                            | <i>Fe. Si.</i>             |
| <i>Fer oxydé quarzifère</i>      | 56.   | al. fe. si. (ca.)   | 11.    | al. fe si.                         | <i>Al. Fe. Si.</i>         |
| <i>Fer oxydé resinite</i>        | 13.   | fe. as. su. Aq.     | 18.    | fe. su. às.                        | <i>Fe. Su. As.</i>         |
| — —                              | —     | fe. su. Aq.         | —      | fe. su.                            | <i>Fe. Su.</i>             |
| <i>Fer oxydulé</i>               | —     | fe,                 | —      | Fe <sup>2</sup> . O <sup>2</sup> . | <i>Fe.</i>                 |
| <i>Fer oxydulé titanifère</i>    | —     | fe. ti. (mn.)       | —      | fe. ti.                            | <i>Fe. Ti.</i>             |
| <i>Fer phosphaté</i>             | —     | fe. ph. Aq.         | —      | fe. ph.                            |                            |
| — —                              | —     | — —                 | 12.    | — —                                | <i>Ph. Fe.</i>             |
| — —                              | —     | fe. ph. mn. Aq.     | 18.    | fe. ph. mn.                        |                            |
| — —                              | —     | — —                 | 12.    | — —                                | <i>Ph. Fe. Mn.</i>         |
| <i>Ferrum meteoricum</i>         | xiii. | Fe. Nc.             | xviii. | Fe. Nc.                            |                            |
| <i>Ferrum nativum Aquisgran.</i> | —     | Fe. As.             | —      | Fe. As.                            |                            |

|  |        |                              |        |                     |  |                                |
|--|--------|------------------------------|--------|---------------------|--|--------------------------------|
| Ferrum nativum                           |        |                              |        |                     |  |                                |
| Saxonicum                                | xiii.  | Fe. Pb. (Cu.)                | xviii. | Fe. Pb.             |  |                                |
| Fer siliceo-calcaire                     | 15.    | fe. si. ca.                  | 18.    | fe. si. ca.         |  |                                |
| — — —                                    | —      | — — —                        | 9.     | — — —               |  | Si. Fe. Ca.                    |
| Fer sulfuré                              | xxvii. | Su. Fe.                      | vi.    | Su. Fe.             |  |                                |
| Fer sulfuré fer-<br>rifère               | xiii.  | Fe Su.                       | —      | — — —               |  |                                |
| Fettstein                                | 54.    | si. al. (fe. so.<br>ca.) Aq. | 9.     | si. al.             |  | Si. Al.                        |
| — — —                                    | —      | si. al. so. po. (fe.)        | —      | si. al. so. po.     |  | Si. Al. So. Po.                |
| — — —                                    | —      | si. al. po. (fe.<br>ca.) Aq. | —      | si. al. po.         |  | Si. Al. Po.                    |
| Feueropal                                | —      | si. Aq.                      | —      | si.                 |  | Si.                            |
| Feuerstein                               | —      | si.                          | —      | —                   |  | —                              |
| Fibrolithus                              | 56.    | al. si. fe.                  | 11.    | al. si. fe.         |  | Al. Si. Fe.                    |
| Flockenerz                               | 6.     | pb. as.                      | 29.    | as. pb.             |  | As. Pb.                        |
| Fluas calcicus                           | 40.    | ca. fl.                      | 1.     | fl. ca.             |  | Fl. Ca.                        |
| Fluas cererii<br>aurantius               | 25.    | ce. fl. Aq.                  | 52.    | ce. fl.             |  | Ce. Fl.                        |
| Fluas cererii<br>basicus                 | —      | — — —                        | —      | — — —               |  | — — —                          |
| Fluas cererii<br>rubicundus              | —      | ce. fl. (yt.)                | —      | — — —               |  | — — —                          |
| Fluas cericus<br>neuter                  | —      | ce. fl.                      | 1.     | fl. ce.             |  |                                |
| — — —                                    | —      | — — —                        | 52.    | — — —               |  | Ce. Fl.                        |
| Fluas cerosus                            | —      | — — —                        | —      | ce. fl.             |  | — — —                          |
| Fluas yttricus                           | 58.    | yt. fl.                      | 25.    | yt. fl.             |  | Yt. Fl.                        |
| Flusserde                                | 40.    | ca fl. ph. Aq.               | 14.    | ca. fl. ph.         |  | Ca. Fl. Ph.                    |
| Fluss-schwer-<br>spath                   | —      | ca. ba. su. fl.              | 1.     | fl. ca. su. ba.     |  |                                |
| — — —                                    | —      | — — —                        | 6.     | — — —               |  | Su. Fl. Ca. Ba.                |
| Fluss-spath                              | —      | ca. fl.                      | 1.     | fl. ca.             |  | Fl. Ca.                        |
| Fossile Danvi-<br>cense flavo-<br>viride | 34.    | si. al. so. (ca.<br>po. mg.) | 9.     | si. al. so.         |  | Si. Al. So.                    |
| Fossile Ferroëse<br>wawellitiforme       | —      | si. al. ca. so. po.<br>Aq.   | —      | si. al. ca. so. po. |  | Si. Al. Ca. So. Po.<br>Fossile |



|  |         |                                  |     |                     |                            |
|--|---------|----------------------------------|-----|---------------------|----------------------------|
| Fossile Finboënsse<br>rubrum                 | 38.     | yt. ce. si. fl. (ca. fe.)        | 1.  | fl. yt. si. ce.     | <i>Fl. Si. Yt. Ce.</i>     |
| Fossile Græn-<br>gesbergense<br>globosum     | 34.     | si. fe. mg. al.<br>(mn.) Aq.     | 9.  | si. fe. mg. al.     | <i>Si. Al. Fe. Mg.</i>     |
| Fossile Groen-<br>landicum epi-<br>dotiforme | —       | si. al. so. ca. fe.              | —   | si. al. so. ca. fe. | <i>Si. Al. So. Ca. Fe.</i> |
| Fossile Nord-<br>markense viride             | —       | si. ca. al. mn. fe.              | —   | si. ca. al. mn. fe. | <i>Si. Ca. Al. Mn. Fe.</i> |
| Fossile Vigen-<br>nense radiatum             | 13.     | fe. ph. mn. Aq.                  | 18. | fe. ph. mn.         | <i>Fe. Ph. Mn.</i>         |
| Franklinitus                                 | —       | fe. zn. mn.                      | —   | fe. zn. mn.         | <i>Fe. Mn. Zn.</i>         |
| Frugårditus                                  | 34.     | si. ca. al. mg. fe.              | 9.  | si. ca. al. mg. fe. | <i>Si. Al. Ca. Mg. Fe.</i> |
| Gabbronitus                                  | 34.     | si. al. so. po.<br>(mg. fe.) Aq. | 9.  | si. al. so. po.     | <i>Si. Al. So. Po.</i>     |
| Gadolinitus                                  | 38.     | yt. ce. si. fe.                  | 25. | yt. si. ce. fe.     | <i>Si. Yt. Ce. Fe.</i>     |
| — —  | —       | — —                              | 9.  | — —                 | <i>Yt. Si.</i>             |
| — —  | —       | yt. si.                          | 25. | yt. si.             | <i>Si. Yt. Fe.</i>         |
| — —  | —       | yt. si. fe.                      | 9.  | si. yt. fe.         | <i>Yt. Si. Fe.</i>         |
| — —  | —       | — —                              | 25. | yt. si. fe.         | <i>Si. Yt. Ce. Fe.</i>     |
| — —  | —       | yt. si. ce. fe.                  | —   | yt. si. ce. fe.     | <i>Si. Yt. Ce. Fe.</i>     |
| — —  | —       | — —                              | 9.  | — —                 | <i>Al. Zn.</i>             |
| Gagas  | xxviii. | Cb. H. O.                        | ii. | Cb. H. O.           | <i>Al. Zn. Fe. Si.</i>     |
| Gahnitus                                     | 36.     | al. zn.                          | 11. | al. zn.             | <i>Al. Zn. Si. Fe.</i>     |
| — —  | —       | al. zn. fe. si.                  | —   | al. zn. fe. si.     | <i>Al. Zn. Si. Fe.</i>     |
| — —  | —       | al. zn. fe. si. (Su.)            | —   | al. zn. si. fe.     | <i>Al. Zn. Si. Fe.</i>     |
| Galena                                       | vi.     | Pb. Su.                          | vi. | Su. Pb.             | <i>Zn. Si.</i>             |
| Galmei                                       | 16.     | zn. si.                          | 26. | zn. si.             | <i>— —</i>                 |
| — —  | —       | zn. si. Aq.                      | —   | — —                 | <i>Si. Zn.</i>             |
| — —  | —       | — —                              | 9.  | — —                 | <i>Cb. Zn.</i>             |
| Galmei, edler                                | —       | zn. cb.                          | 2.  | cb. zn.             | <i>Cb. So. Ca.</i>         |
| Gay-Lussitus                                 | 28.     | cb. so. ca.                      | —   | cb. so. ca.         | <i>Si. Ca. Al. Fe. Po.</i> |
| Gehlenitus                                   | 34.     | si. ca. al. fe.                  | 9.  | si. ca. al. fe. po. | <i>Si. Al. Ca. Fe.</i>     |
| — —  | —       | po. Aq.                          | —   | — —                 | <i>Gehlenitus</i>          |
| — —  | 40.     | ca. si. al. fe. Aq.              | —   | si. ca. al. fe.     |                            |

|                  |         |                     |        |                     |                            |  |
|------------------|---------|---------------------|--------|---------------------|----------------------------|--|
| Gehlenitus a-    |         |                     |        |                     |                            |  |
| morphus          | 34.     | si. ca. al. mg. fe. | 9.     | si. ca. al. mg. fe. | <i>Si. Ca. Al. Mg. Fe.</i> |  |
| Gekrösstein      | 27.     | su. ca.             | 6.     | su. ca.             | <i>Su. Ca.</i>             |  |
| Gelb-Blende      | xvi.    | Zn. Su. (Fe.)       | vi.    | Su. Zn.             |                            |  |
| Gelbeisenstein   | 15.     | fe. si. (su. al.)   | 18.    | fe. si.             | <i>Fe. Si.</i>             |  |
|                  |         | Aq.                 |        |                     |                            |  |
| Gelberde         | 34.     | si. (fe. ca. al.)   | 9.     | si. (ca. fe. al.)   | <i>Si. (Fe. Ca. Al.)</i>   |  |
| — —              | 36.     | al. fe. Aq.         | 11.    | al. fe.             | <i>Al. Fe.</i>             |  |
| Gelberz          | xxi.    | Te. Au. Pb. Ag.     | xxvii. | Te. Au. Pb. Ag.     |                            |  |
| Gibbsitus        | 36.     | al. Aq.             | 11.    | al.                 | <i>Al.</i>                 |  |
| — —              | —       | al. fe. Aq.         | —      | al. fe.             | <i>Al. Fe.</i>             |  |
| Giesekitus       | 34.     | si. al. po. fe.     | 9.     | si. al. po. fe.     | <i>Si. Al. Po. Fe.</i>     |  |
|                  |         | (mg.) Aq.           |        |                     |                            |  |
| Giobertitus      | 28.     | cb. mg.             | 2.     | cb. mg.             | <i>Cb. Mg.</i>             |  |
| Gismondinus      | 40.     | ca. si. (fe. al.    | 9.     | si. ca.             | <i>Si. Ca.</i>             |  |
|                  |         | mg.)                |        |                     |                            |  |
| Glanzkobalt      | x.      | Co. Su. Fe. Cu.     | vi.    | Su. Co. Fe. Cu.     |                            |  |
| Glanzkobalt      | xxii.   | As. Co. (Su.)       | xxix.  | As. Co.             |                            |  |
| — —              | —       | As. Co. Su. Fe.     | —      | As. Co. Su. Fe.     |                            |  |
| — —              | —       | — —                 | vi.    | Su. As. Co. Fe.     |                            |  |
| Glanzkohle       | xxviii. | Cb. O.              | ii.    | Cb. O.              |                            |  |
| Glas, Müll-      |         |                     |        |                     |                            |  |
| risches          | 34.     | si. (al.) Aq.       | 9.     | si. (al.)           | <i>Si. (Al.)</i>           |  |
| Glas Russisches, |         |                     |        |                     |                            |  |
| schwarzes        | —       | si. fe. al. po.     | —      | si. fe. al. mg.     | <i>Si. Al. Fe. Mg. Po.</i> |  |
|                  |         | mg. (mn.)           |        | po.                 |                            |  |
| Glaserz          | vii.    | Ag. Su.             | vi.    | Su. Ag.             |                            |  |
| Glasopal         | 34.     | si. (al.) Aq.       | 9.     | si.                 | <i>Si.</i>                 |  |
| Glauberitus      | 27.     | su. so. ca.         | 6.     | su. so. ca.         | <i>Su. So. Ca.</i>         |  |
| Glimmer          | 34.     | si. al. po. fe.     | 9.     | si. al. po. fe.     | <i>Si. Al. Po. Fe.</i>     |  |
|                  |         | (fl.) Aq.           |        |                     |                            |  |
| Glimmer,         |         |                     |        |                     |                            |  |
| schwarzer        | —       | si. fe. al. po. mg. | —      | si. fe. al. mg. po. | <i>Si. Al. Fe. Mg. Po.</i> |  |
| — —              | —       | si. fe. mg. al. po. | —      | si. mg. al. fe. fl. | <i>Si. Al. Fe. Mg. Fl.</i> |  |
|                  |         | fl.                 |        | po.                 | <i>Po.</i>                 |  |
| Glimmerkupfer    | 12.     | cu. sb. (pb. Su.)   | 24.    | cu. sb.             | <i>Cu. Sb.</i>             |  |
| Gmelinitus       | 34.     | si. al. ca. so. Aq. | 9.     | si. al. ca. so.     | <i>Si. Al. Ca. So.</i>     |  |
| Gold, gediegen   | iii.    | Au. (Ag.)           | xli.   | Au. (Ag.)           |                            |  |
| Grammatitus      | 34.     | si. mg. al. ca.     | 9.     | si. mg. al. ca.     | <i>Si. Mg. Al. Ca.</i>     |  |
|                  |         | (fe. fl.)           |        |                     |                            |  |

Grammatitus