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Gibbsite or Hydrargillite is comparatively rare. Occurs mostly in white or pale greenish-yellow mamillary and stalactitic examples, and in small hexagonal prisms with basal cleavage. H 2·5 to 3; sp. gr. 2·35. BB infusible, but commonly exfoliates. Water percentage, 34·5.

Calamine, Allophane, Kollyrite, and Halloysite, are decomposed with gelatinization by hydrochloric acid. The first scratches calcite very strongly, and some examples scratch glass slightly. The others are softer than calcite.

Calamine or Zinc Silicate occurs chiefly in aggregations of small, vitreous crystals, and in botryoidal and cavernous masses, either colourless, or brownish, vellowish, &c., and sometimes light-blue from presence of a small amount of copper oxide. But it is chiefly distinguished by yielding a sublimate of ZnO, when fused with a mixture of carb, soda and borax in a good reducing flame on charcoal. The sublimate is lemon-yellow whilst hot, and white when cold; and it becomes light-green when moistened with a drop of cobalt nitrate and again ignited. Another distinctive character (as regards the minerals associated with it in this group) is its property of forming BB with borax a glass which on saturation becomes opaque-white by flaming or when cold. H 5; sp. gr. 3.3 to 3.5. The powder ignited with cobalt solution, becomes partly green and partly blue on cooling. In the bulb-tube yields 7.5 per cent. water.

Allophane occurs in amorphous, botryoidal and similar examples. H 3; sp. gr. about 2. Sometimes mixed with copper silicate and then light-blue or green in colour, otherwise red, brownish, &c. Halloysite and Kollyrite are