Charmarite Mn

2+ Al2(CO3)(OH)12•3H2O

Crystal Data: Monoclinic. Point Group: 2/m. As complexly faceted crystals, several cm in length, with {100}, {221}, {221}, and {001} prominent; 28 forms have been recognized. Twinning: Commonly twinned on {100}, producing contact twins or finely polysynthetic lamellae.

Physical Properties: Cleavage: {100} and {010}. Hardness = ~3 D(meas.) = 6.30–6.49 D(calc.) = [6.38]


X-ray Powder Pattern: Mounana mine, Gabon.
3.441 (FFF), 3.428 (FFF), 3.206 (FF), 4.93 (F), 3.081 (F), 4.32 (mF), 3.569 (mF)

Chemistry: (1)

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<tbody>
<tr>
<td>V2O5</td>
<td>29.1</td>
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<tr>
<td>PbO</td>
<td>71.6</td>
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<tr>
<td>Total</td>
<td>100.7</td>
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(1) Mounana mine, Gabon; by electron microprobe, corresponds to Pb2.00V2+O7.

Occurrence: In the oxidized zone of a lead-bearing U–V deposit (Mounana mine, Gabon).

Association: Francevillite, wulfenite (Mounana mine, Gabon).

Distribution: In the Mounana uranium mine, Franceville, Gabon. From the Kusu deposit, 85 km south of Kinshasa, Bas-Congo Province, Congo (Bas-Zaïre Province, Zaïre). From St. Andreasberg, Harz Mountains, Germany. Found at Vrančice, near Příbram, Czech Republic.

Name: Honors Jean Chervet (1904–1962), French mineralogist.

Type Material: National School of Mines, Paris, France.