Monteponite

Crystal Data: Cubic. Point Group: $4/m 3 2/m$. As octahedra, with cube modification, in a druse of fine crystals, to 0.05 mm; pulverulent, massive. Twinning: Penetration twins, law unknown.

Physical Properties: Hardness = 3 D(meas.) = 8.1–8.2 (synthetic). D(calc.) = 8.238


Cell Data: Space Group: $Fm3m$ (synthetic). $a = 4.6953$ Z = 4

X-ray Powder Pattern: Synthetic. 2.712 (100), 2.349 (88), 1.661 (43), 1.416 (28), 1.355 (13), 1.0499 (13), 0.9584 (11)

Chemistry:

<table>
<thead>
<tr>
<th></th>
<th>(1)</th>
<th>(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cd</td>
<td>87.5</td>
<td>87.54</td>
</tr>
<tr>
<td>O</td>
<td>[12.5]</td>
<td>12.46</td>
</tr>
<tr>
<td>Total</td>
<td>[100.0]</td>
<td>100.00</td>
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</tbody>
</table>

(1) Genarutta mine, Sardinia, Italy; O by difference. (2) CdO.

Polymorphism & Series: Forms a solid solution series with lime. Dimorph of cadmoxite.

Mineral Group: Periclase group.

Occurrence: As a coating over “calamine” (Genarutta mine, Sardinia, Italy); in sulfide ore (Verkhoyan'ya, Russia). In altered pyrometamorphic rocks (Jordan).

Association: “Calamine” [smithsonite or hemimorphite] (Genarutta mine, Sardinia, Italy); cadmium, otavite (Verkhoyan’ya, Russia).

Distribution: From the Genarutta mine, Monteponi, near Iglesias, Sardinia, Italy. At Welrath, Belgium. From southern Verkhoyan’ya, Russia. From the Hatrurim Complex, Daba-Siwaqa, Jordan.

Name: For Monteponi, near the locality on Sardinia, Italy.

Type Material: n.d.