**Sarcopside**

(Fe$^{2+}$, Mn$^{2+}$, Mg)$_3$(PO$_4$)$_2$

©2001-2005 Mineral Data Publishing, version 1

**Crystal Data:** Monoclinic. *Point Group:* 2/m. Fibrous, to 1 mm, more commonly platy or lamellar, in veinlets in oriented intergrowth with graftonite or triphylite. *Twinning:* Polysynthetic on {001}, common.

**Physical Properties:** *Cleavage:* {100}, {001}, good; {010}, poor. *Fracture:* Splintery to fibrous. Hardness = 4 D(meas.) = 3.79 D(calc.) = 3.80; 3.94


**Cell Data:** *Space Group:* P2$_1$/a. a = 10.437(22) b = 4.768(9) c = 6.026(8) β = 90.00(15)° Z = 2

**X-ray Powder Pattern:** East Alstead, New Hampshire, USA. 3.03 (100), 3.54 (80), 6.06 (50), 2.819 (50), 3.95 (40), 4.37 (30), 2.558 (30)

**Chemistry:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>P$_2$O$_5$</td>
<td>39.8</td>
</tr>
<tr>
<td>FeO</td>
<td>50.2</td>
</tr>
<tr>
<td>MnO</td>
<td>6.9</td>
</tr>
<tr>
<td>MgO</td>
<td>3.5</td>
</tr>
<tr>
<td>Total</td>
<td>100.4</td>
</tr>
</tbody>
</table>

(1) East Alstead, New Hampshire, USA; by electron microprobe, total Fe as FeO, total Mn as MnO; corresponding to (Fe$_{2.42}$Mn$_{0.34}$Mg$_{0.30}$)$_{2/3}$(PO$_4$)$_{1.94}$. (2) Bull Moose mine, South Dakota, USA; by electron microprobe, analysis not given; stated to correspond to (Fe$_{2.34}$Mn$_{0.63}$Mg$_{0.03}$)$_{2/3}$(PO$_4$)$_{2/3}$.

**Occurrence:** Formed along with graftonite, probably by exsolution from triphylite, in complex zoned granite pegmatites.

**Association:** Graftonite, vivianite, huréaulite, triphylite.

**Distribution:** From Góra Sowie (Michelsdorf), in the Eulengebirge, Silesia, Poland. At Otov and Domažlice, Czech Republic. From the Norrö pegmatite, on Ranó Island, and in the Berg quarry, near Sollefteå, Västerbotten, Sweden. At Hagendorf, Bavaria, Germany. In the USA, in New Hampshire, at the Gingras Farm, near Deering, Hillsboro Co., in the G.E. Smith mine, Newport, Sullivan Co., and from the DeMott and French King No. 2 mines, East Alstead, Cheshire Co.; in South Dakota, at the Bull Moose and Victory mines, and the Lofton prospect, near Custer, Custer Co. From the Énio pegmatite mine, northeast of Galiléia, Minas Gerais, Brazil. In the Tsaobismund pegmatite, 60 km south of Karibib, Namibia.

**Name:** From the Greek for flesh and view, in allusion to its supposed flesh-red color [due to intimate intergrowth with graftonite].

**Type Material:** Wroclaw University, Wroclaw, Poland, IV-4247.


All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise without the prior written permission of Mineral Data Publishing.