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Crystal Data: Orthorhombic. Point Group: $2/m \ 2/m \ 2/m$ or mm2. Crystals, up to 0.5 mm, in granular aggregates, to 20 cm.

Physical Properties: Hardness = \sim 5 D(meas.) = 3.90(5) D(calc.) = 3.84

Optical Properties: Transparent. Color: Pink. Streak: Light pink. Luster: Vitreous. Optical Class: Biaxial (+). Pleochroism: Weak; X = Y = colorless; Z = light pink. Orientation: X = b; Y = a; Z = c. Dispersion: r > v, moderate. Absorption: Z > X = Y. $\alpha = 1.780(3)$ $\beta = 1.792(3)$ $\gamma = 1.808(3)$ $2V(\text{meas.}) = 81.3(2)^{\circ}$ $2V(\text{calc.}) = 82.5^{\circ}$

Cell Data: Space Group: Pbnm or $Pbn2_1$. a=4.799(1) b=10.742(6) c=15.70(1) Z=4

X-ray Powder Pattern: Kombat mine, Namibia. 1.796 (100), 2.873 (80), 2.552 (80), 2.925 (70), 2.821 (70), 2.695 (60), 2.515 (40)

Chemistry:		(1)
	SiO_2	24.3
	$\overline{\text{FeO}}$	0.3
	${ m MnO}$	65.1
	$_{ m MgO}$	5.2
	CaO	0.2
	F	0.0
	$\rm H_2O$	[4.9]

Total [100.0]

(1) Kombat mine, Namibia; by electron microprobe, H_2O by difference; corresponds to $(Mn_{4.30}^{2+}Mg_{0.60}Fe_{0.02}Ca_{0.02})_{\Sigma=4.94}Si_{1.90}O_{10}H_{2.54}$.

Polymorphism & Series: Dimorphous with alleghanyite.

Mineral Group: Leucophoenicite group.

Occurrence: In mineralogically distinct layers, in tectonically transported and boudinaged manganese-rich lenses within dolostones, apparently formed under prograde metamorphic conditions.

Association: Alleghanyite, manganoan calcite, pyrochroite, chlorite, galaxite, jacobsite.

Distribution: In the Kombat mine, 49 km south of Tsumeb, Namibia.

Name: To honor Dr. Paul H. Ribbe, Virginia Polytechnic Institute, Blacksburg, Virginia, USA.

Type Material: National Museum of Natural History, Washington, D.C., USA, 163208.

References: (1) Peacor, D.R., P.J. Dunn, S.-C. Su, and J. Innes (1987) Ribbeite, a polymorph of alleghanyite and member of the leucophoenicite group from the Kombat mine, Namibia. Amer. Mineral., 72, 213–216.