

Nasledovite**PbMn₃²⁺Al₄O₅(CO₃)₄(SO₄)•5H₂O**

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Crystal Data: n.d. *Point Group:* n.d. Radial fibrous, forming oölites, to 3 mm.**Physical Properties:** Hardness = 2 D(meas.) = 3.069 D(calc.) = n.d.**Optical Properties:** Semitransparent. *Color:* Snow-white, commonly covered by dark brown to reddish material. *Luster:* Silky.*Optical Class:* Biaxial (?). *Orientation:* $Z \wedge c = 2^\circ\text{--}23^\circ$, wavy extinction. $\alpha = \text{n.d.}$ $\beta = \text{n.d.}$ $\gamma = 1.591$ $2V(\text{meas.}) = \text{n.d.}$ **Cell Data:** *Space Group:* n.d. $Z = \text{n.d.}$ **X-ray Powder Pattern:** Sardob deposit, Tajikistan.

3.261 (10), 2.028 (6), 2.019 (6), 1.462 (6), 2.853 (5), 2.983 (4), 1.749 (4)

Chemistry:

	(1)	(2)
SO ₃	4.76	8.12
CO ₂	19.08	17.85
Al ₂ O ₃	20.40	20.68
Fe ₂ O ₃	1.39	
MnO	15.46	21.58
ZnO	0.76	
PbO	24.35	22.64
MgO	3.68	
H ₂ O	10.12	9.13
Total	[100.00]	100.00

(1) Sardob deposit, Tajikistan; recalculated to 100% after deduction of SiO₂ 1.58%, MnO₂ 2.04%, and H₂O⁻ 0.60 % from an original total of 100.84%; then corresponds to Pb_{1.03}(Mn_{2.05}Mg_{0.87}Zn_{0.08})_{Σ=3.00}(Al_{3.77}Fe_{0.17})_{Σ=3.94}(CO₃)_{4.08}(SO₄)_{0.56}O_{5.30}•5.27H₂O. (2) PbMn₃Al₄O₅(CO₃)₄(SO₄)•5H₂O.

Occurrence: A rare fracture filling in oxidized granodiorite porphyry which also hosts polymetallic ores.**Association:** Pyrolusite, iron oxide, cerussite.**Distribution:** From the Sardob deposit, eastern Altyn-Topkan district, Kuramin Mountains, northern Tajikistan. [??ck not Chatkal-Kuramin Mountains, Uzbekistan??]**Name:** To honor Professor Boris Nikolaevich Nasledov (1885–1942), geologist, for his investigations of the mineral resources of the Chatkal-Kuramin region, Kyrgyzstan-Uzbekistan.**Type Material:** n.d.**References:** (1) Enikeev, M.R. (1958) A new mineral, nasledovite, from the Altyn-Topkansk ore field. Doklady Akad. Nauk Uzbek. S.S.R., 5, 13–16 (in Russian). (2) (1959) Amer. Mineral., 44, 1325 (abs. ref. 1). (3) Pekov, I.V. (1998) Minerals first discovered on the territory of the former Soviet Union. Ocean Pictures, Moscow, 146.