In the work we study the positivity for operators and linear mappings on symmetric algebras of bounded linear operators on Pontryagin space $\Pi_1$. Consideration of all possible cases is based on structure of cones of positive linear operators. Geometry of unit balls of symmetric algebras of operators on Pontryagin space $\pi_1$ is studied. Connection with V. S. Shulman’s types of such algebras is described (see Math. Sbornik, 1972, No 2). (Received March 03, 2017)