Theorem 3.180. [244] is the smallest S-saturated set.

Proof. Given a set A that is S-saturated, \mathbb{N}_A is defined as the intersection of all S-saturated subsets of A. By [245], \mathbb{N}_A is S-saturated. Given two sets A, B that are S-saturated, it is proven that $\mathbb{N}_A = \mathbb{N}_B$: we denote then by \mathbb{N} this set. In particular, given a set A that is S-saturated, we have $\mathbb{N} \subset A.$