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Michelle R Craddock* (mcraddoc@olemiss.edu). *The Grothendieck Space Property for the Fremlin and Wittstock Tensor Products of Banach Lattices*. Preliminary report.

Let X be a Banach lattice and let $1 < p, q < \infty$ such that $1/p + 1/q = 1$. Then $\ell_p \hat{\otimes}_F X$ (respectively, $\ell_p \tilde{\otimes}_i X$), the Fremlin projective (respectively, the Wittstock injective) tensor product of ℓ_p and X , is a Grothendieck space if and only if X is a Grothendieck space and each positive operator from ℓ_p (respectively, from ℓ_q) to X^* (respectively, to X^{**}) is compact. (Received February 21, 2008)