ABSTRACT

Mungbean cereal produced through some production process. Start from mungbean agitation, cereal process production, then drying process. In this case, cereal drying process is using roller drier. Roller drier have decrease performance time to time, so we will do heat transfer analyze and calculation machine efficiency.

In line with the above analyze we have been done research in PT. Nestle Indonesia to taken the data. We do analyze on heat transfer mechanism from steam in the inner drum to mungbean film on the drum surface.

After we do heat transfer calculation, we get the result that the roller drier efficiency is 60.36%. This machine have no good efficiency because many energy loss through both of drum end site, opening drum surface and condensate.

Key words : Mungbean cereal, Roller drier, Heat transfer