



Research Paper

Experimental Investigation of Some Important Soy Shreds Characteristics

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The world-wide increase in the production and trade in bulk solids has led to the construction of increasingly large silos for the storage of an increasing number of bulk solids, of which the characteristics are sometimes not well known. Therefore, it is not surprising that some bulk solids behave rather ficklely when stored in silos. Soy shreds, the remainder of soy beans when the oil is extracted, can be considered as such a bulk solid. Soy shreds are rich in proteins (44-49%), and are therefore used as (a component of) forage. When stored in silos, soy shreds behave as a cohesive bulk solid.

In combination with a research program during which wall pressures in a soy shreds silo were measured [1] [2] [5], some important soy shreds characteristics were investigated in the laboratory. The tested soy shreds samples had an average moisture content of 13.8%, while their average temperature was 20°C. The tests were carried out for a pressure range that includes the pressures recorded in the above-mentioned silo.