

**VARIATION OF THE AIR FLOW WITH THE PRODUCT
FLOW DURING THE PNEUMATIC TRANSPORT OF
INTERMEDIARY PRODUCTS IN THE
MILLING INDUSTRY**

— research paper —

Tănase TĂNASE¹, Ioan DANCIU

*Faculty of Agricultural Sciences, Food Industry and Environmental
Protection, Lucian Blaga University Sibiu, Romania*

Abstract. The purpose of this work was to determine the variation of the air debit based on the variation of the product debit during the pneumatic transport of intermediary products in the milling industry. The products subject to analysis were harvested from a wild wheat mill with a cap. of 250 tons/24 h at Grit 1. The installation which was used included a dosage system with a screw operated with an electronic inverter, two pipes of pneumatic transport with diameters of 74 mm and 117 mm, a cyclone with lock and a high pressure fan for the pneumatic transport. The product debit was measured by capturing and weighing the sample on an electronic scale, and the air debit was measured with a Testo Term 452 device fitted with a Pitot tube .

Keywords: pneumatic transport, milling,

¹ Corresponding address and actual working place: SC Tecnocereal SRL, Făgetului 136 B, Constanța Romania. E-Mail: tecnocereal@yahoo.com