

## **Extraction from a polydisperse granular layer of milled oilseeds with supercritical carbon dioxide**

Egorov A., Mazo A., Maksudov R.

*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

---

### **Abstract**

A mathematical model of the supercritical fluid extraction of oil from a polydisperse granular layer of milled oilseeds is proposed. An experiment on the extraction of a polydisperse layer of white lupin seeds with different realizations of the size distribution function of the grains was carried out. The results of the laboratory experiment were used for the adaptation of the mathematical model; a fair agreement between the calculated and experimental curves of the oil yield was achieved. © 2010 Pleiades Publishing, Ltd.

<http://dx.doi.org/10.1134/S0040579510050027>

---