

عنوان مقاله:

Geometrical, volumetrical and frictional properties of some medicinal plant seeds

محل انتشار:

چهارمین کنفرانس بین المللی مهندسی و علوم انسانی (سال: 1395)

تعداد صفحات اصل مقاله: 10

نویسندگان:

Ebubekir Altuntas - *Department of Biosystems Engineering, Faculty of Agriculture, University of Gaziosmanpasa, Tokat, Turkey*

Gungor Yilmaz - *Department of Field Crops, Faculty of Agriculture, University of Gaziosmanpasa, Tokat, Turkey*

خلاصه مقاله:

Physical (geometrical, volumetrical and frictional) properties of some medicinal plant seeds such as fennel seeds, linseeds and harmful seed capsules were determined. The length, width and thickness were as 6.93, 2.13, 1.75 mm for fennel seeds, and 4.31, 2.28, 0.87 mm for linseeds, respectively. The length and diameter were as 6.65, 9.07 mm for harmful seed capsules, respectively. The bulk and true densities were determined as 270.5 and 664.6 kg/m³ (for fennel seeds), 384.3 and 1256.5 kg/m³ (for linseeds), 201.5 and 936.2 kg/m³ (for harmful seed capsules), respectively. The sphericity of the medicinal plant seeds were found as 0.43, 0.47, 0.72 for fennel seeds, linseeds and harmful seed capsules, while the angle of repose of fennel seeds, linseeds and harmful seed capsules were obtained as 17.35°, 13.84°, 29.94°, respectively. The highest static friction coefficient of the medicinal plant seeds such as fennel seeds, linseeds and harmful seed capsules were found for rubber friction surface.

کلمات کلیدی:

fennel seeds, linseeds and harmful seed capsules, sphericity, volume, friction coefficient

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/576018>

