

Moisture related physical properties of drum-roasted cashewnut

■ S.K. SWAIN, J.P. GUPTA AND B.R. NAYAK

Received : 26.10.2013; Revised : 04.02.2014; Accepted : 17.02.2014

See end of the Paper for authors' affiliation

Correspondence to :

B.R. NAYAK

AICRP on Water Management,
Regional Research and
Technology Transfer Station
(O.U.A.T.), Chiplima,
SAMBALPUR (ODISHA)
INDIA
Email : biswa.nayak@yahoo.
co.in

■ **ABSTRACT** : A study on physical properties of drum roasted cashew nuts of three different sizes was conducted within the moisture content range from 6.75 - 13.52 per cent. The three basic dimensions *i.e.* length, width and thickness of the cashew nuts were found to vary within the range of 25.12 mm to 36.59 mm, 20.56 mm to 25.81 mm and 15.35 mm to 19.42 mm, respectively irrespective of the moisture content and the nut size. The values of equivalent diameter, sphericity and shell thickness were observed to be within the range of 19.35 mm to 25.11 mm, 0.771 to 0.698 and 3.47 mm to 6.35 mm, respectively under the given conditions. The unit weight and bulk density of the nuts were found to vary within the range of 4.11 g to 8.41 g and 0.372 g/mm³ to 0.421 g/mm³, respectively.

■ **KEY WORDS** : Roasted cashew nuts, Thickness and equivalent diameter, Bulk density, True density

■ **HOW TO CITE THIS PAPER** : Swain, S.K., Gupta, J.P. and Nayak, B.R. (2014). Moisture related physical properties of drum-roasted cashewnut. *Internat. J. Agric. Engg.*, 7(1) : 81-85.