


BRIQUETING OF ALMOND SHELLS

 PATENTED TECHNOLOGY

 EXCLUSIVE LICENSED



CONTACT DETAILS:

Research Results Transfer Office-
OTRI
University of Alicante
Tel.: +34 96 590 99 59
Email: areaempresas@ua.es
<http://innoua.ua.es>

ABSTRACT

Briquettes of different densities and mechanical resistance can be obtained from almond shells without the addition of other substances. At 180 °C with pressure of 640 kg/cm², cylindrical briquettes, without grounding of the almond shells, have been obtained with very good mechanical resistance, whereas at 70-80 °C with 640 kg/cm², briquettes with acceptable mechanical resistance are also obtained.

TECHNOLOGY ADVANTAGES AND INNOVATIVE ASPECTS

The briquetting of some materials is not easy, due to the elastic properties of some materials, that after the mechanical compression, partially recuperate their initial form. Almond shell is a material, that cannot be compressed at room temperature, without the addition of other substances. Nevertheless, changing the conditions of moisture of the sample, temperature, pressure and time, the briquettes obtained have good mechanical properties, that remain for years.

MARKET APPLICATIONS

Agricultural enterprises that have shells and are interested in obtaining clean briquettes.

COLLABORATION SOUGHT

Application of the technology to almond shells and other shells.