

Process Applications and new Developments for Production of High-Quality Rape Seed Extraction Meal

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Rape seed extraction meal (REM) has got a growing importance and interest in use as an animal feed – resulting from increased processing of rape seed. An improved quality of REM can extend its application for different kinds of animal feed and can contribute to a much better economical result of the whole rape seed crushing process.

In the current situation the use of REM as animal feed is limited because of still significant levels of anti-nutritive substances in the meal, mostly glucosinolates and in addition, a higher content of protein with better functionality is essentially required.

Process applications forming an extension of existing running crushing plants are described in each single process step, which will be explained in their main tasks, achieved results and their combination with each other. An economical consideration of the whole process will be given as well.

As a result of research work the additional extraction losses are determined in their composition and should be used for different applications stabilising the economical benefits of the new process. The final product quality of REM, shown in analytical data, can be presented as a real progress compared to the conventionally extracted meal.

In addition to the process development an extensive test program feeding piglets has been established and the results will be presented showing the economical potentials in using high-quality REM as an animal feed; e.g. for piglets.

Summarising the achieved research results an outlook will be given for future implementation into industrial scale for both, the new production process as well as for new high-quality REM.