Task:

Application field: Food

Material: Dog food, Beefis, Nager Rondis, Luzern

Feed size: 0-40 mm (pre cutted by knife)

Feed quantity: 80 g (per batch)

Material specification(s): containing grease, fibrous

Customer requirement(s): < 1 - 2 mm  Determination of humidity, protein, ashes, crude fibre

Subsequent analysis: Moisture Content

Solution:

Selected instrument(s): GM 200 Knife Mill Grindomix

Configuration(s): Standard receptacle 1 l, made of polypropylene; Standard cover of polypropylene; Cover for volume reduction to 0.5 l for standard receptacle of polypropylene

Parameter(s): 8000 rpm, 10 sec. Interval action, 5 sec.

Time: 15 s (per batch)

Achieved result(s): Homogeneous < 0.5 mm

Remark(s): Without using the interval operation for grinding fatty dog food, the fat and oil contents will separate on the receptacle, the result is an inhomogeneous sample.

Recommendation: For grinding and homogenisation of fatty and fibres materials the Knife Mill Grindomix GM 200 is suitable under the above mentioned conditions.
Pictures of the sample

Fig. 1:  
Fig. 2:  
Fig. 3:  
Fig. 4: