Task:

Application field: Food

Material: Candies with different hardness, solid and soft nucleus

Feed size: Approx. 20 mm (oval shapes)

Feed quantity: 50 g / 20 g

Material specification(s): medium-hard, dry

Customer requirement(s): sugar-like grinding product with 0.5 -1.0 mm particle size

Subsequent analysis: Vitamin Determination

Solution:

Selected instrument(s): GM 200 Laboratory Knife Mill Grindomix

Configuration(s): Test 1: Standard container PP GM 200 with standard cover of PP; Test 2: Standard container PP GM 200 with gravity lid.

Parameter(s): Revolution speed 7000 min\(^{-1}\) with intervall operation

Time: 10 – 15 s depending on the different hardness

Achieved result(s): < 0,5 - 1,0 mm particle sizes

Remark(s): For a quantity of 50 g candies, the standard cover should be used. For smaller quantities the gravity lid gives advantages. Starting grinding in in interval action

Recommendation: For grinding of medium-hard, dry candies with soft nucleus resp. solid character the Knife Mill Grindomix GM 200 is suitable under the above mentioned conditions.
Pictures of the sample

Fig. 1: Vitamin candies, solid

Fig. 2: After grinding 10 s in GM 200

Fig. 3: Vitamin candies with soft nucleus

Fig. 4: After grinding 15 s in GM 200