

**Report No.:** 15917  
**Date:** 13.11.2014  
**Contact:** GB

**Task:**

**Application field:** Food

**Material:** 1) Barley; 2) palm; 3) rape expeller; 4) cattle feed; 5) sunflower pellets

**Feed size:** approx. 10 mm

**Feed quantity:** 50 g (each sample)

**Material specification(s):** dry, oily

**Customer requirements(s):** 1 mm

**Subsequent analysis:** NIR - Near Infra Red Spectroscopy

**Solution**

**Selected Instrument(s):** Cyclone Mill TWISTER

**Configuration(s) Item nos.:** 1 x TWISTER, 220-240 V, 50/60 Hz, incl. sieve section 1 and 2 mm

Please note: Other electrical versions of the instrument(s) are available with different item numbers.

**Parameter(s):** Revolution speed 14000 rpm

**Time:** < 1 min (for each sample)

**Achieved result(s):** homogeneous sample, predominantly < 1 mm  
some fibres are noticeable in sample barley

**Remark(s):** Samples 1 and 2: Grinding with sieve section 2 mm.  
Samples 3 - 5: Grinding with sieve section 1 mm  
To avoid sieve blockage care has to be taken while grinding fat containing samples (e.g. palm) with 1 mm sieve.

**Recommendation:** The Cyclone Mill TWISTER is suitable to grind the sample material under the above mentioned conditions.

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**Pictures of the sample:**



**Picture 1: Original sample barley**



**Picture 2: Barley after grinding with Twister, sieve 2 mm**



**Picture 3: Original sample palm**



**Picture 4: Palm after grinding with Twister, sieve 2 mm**

The application report is based solely on the processing of the available sample material in the indicated amount. No legal claims shall be derived from this test report.

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**Picture 5: Original sample rape expeller**



**Picture 6: Rape expeller after grinding with Twister, sieve 1 mm**



**Picture 7: Original sample cattle feed**



**Picture 8: Cattle feed after grinding with Twister, sieve 1 mm**

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**Picture 9: Original sample Sunflower pellets**



**Picture 10: Sunflower pellets after grinding with Twister, sieve 1 mm**