



Product Questionnaire **Crown Expander / Expander / Extruder**

Raw material data:

- Composition:
_____ (%)
_____ (%)
_____ (%)
_____ (%)
_____ (%)

- Information on not permitted substances such as animal meal, animal fat, fish meal: _____

- Nutrients:
Protein _____ (%)
Starch _____ (%)
Fat _____ (%)
Crude fibres _____ (%)
Ash _____ (%)

- Type of grinding: _____
- Granular size distribution: _____ (mm)
- Bulk density: _____ (kg/l)
- Water content: _____ (% by weight)
- Flow properties: _____
- Other product properties: _____

- Product quantity: _____ (kg)
- Packing (preferably big-bags with bottom discharge for large-scale tests): _____

Particularities to be observed when handling the raw material:

- Storage, packing, and disposal regulations: _____
- Handling instructions (danger to health, necessary protection measures, dust explosion hazard, safety data sheets etc.) _____
- **The products have to be marked clearly!**

Test aim and task:

Conditioning:

- Max. water addition: _____ (%)
- Max. temperature (by steam addition): _____ (°C)
- Further additives – addition quantities (molasses, fat, oil, solutions, powder etc.):
_____ (%)
_____ (%)
_____ (%)

- Will the additives be supplied together with the test material? _____



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Expander treatment:

- Maximum treatment temperature: _____ (°C)

Requirements on the final product:

- Final moisture content: _____ (%)
- Final bulk density: _____ (kg/l)
- Final temperature: _____ (°C)
- Granular size distribution: _____ (mm)
- Starch modification: _____ (%)
- Only for extruder tests (shape, diameter etc.): _____

- Other requirements (water absorbing capacity, water stability, sinking, floating etc.): _____

The information (test aim and requirements on the final product) serve as basis for the test arrangement.

Data after processing:

- Required product quantity (sample) for subsequent tests: _____ (kg)
- **The customer must dispose of the complete test material!**

Data for later production plant:

- Requested capacity per hour: _____ (t/h)
- Plant execution (stainless steel, dust-tight, explosion protection etc.): _____

Address:

Company/address:

Date/Person in charge:

Notes: