



Product Questionnaire **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: