



# Wet Processing Technology

## Checklist for Test Assignment No. \_\_\_\_\_

In the interests of achieving a fast solution to your processing problems, we would ask you to fill out this checklist as thoroughly as possible. This will save you and us unnecessary handling costs and time-consuming further enquiries. We will naturally treat your answers in strict confidence!

### Project Handling

Company \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Street \_\_\_\_\_  
 Town \_\_\_\_\_  
 Country \_\_\_\_\_  
 Department \_\_\_\_\_  
 Name \_\_\_\_\_  
 Tel. no. \_\_\_\_\_  
 Date \_\_\_\_\_  
 VAT ID no. \_\_\_\_\_

### Sender of Test Material

Company \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Street \_\_\_\_\_  
 Town \_\_\_\_\_  
 Country \_\_\_\_\_  
 Department \_\_\_\_\_  
 Name \_\_\_\_\_  
 Tel. no. \_\_\_\_\_

### Recipient of test material after completion of the tests

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

### Test material delivery by (company)

Delivered as:  solid matter/carrier  suspension  
 Quantity:  60 – 100 kg of solids  50 – 100 liters of suspension

### 1. Test material information

If the test material is a "hazardous substance", you must complete Section 3 ff. of this checklist as well as a safety data sheet.

	Solid Matter Liquid	Liquid
1.1 Trade name		
1.2 Scientific designation		
1.3 Chemical formula		
1.4 Feed particle size distr.	d <sub>50</sub> = _____ μm d <sub>97</sub> = _____ μm max. top size: _____ μm	
1.5 Density	g/dm <sup>3</sup>	g/dm <sup>3</sup>
1.6 Max. permissible temp.	°C	°C
1.7 Degree of hardness (Mohs)		_____
1.8 Moisture content	% H <sub>2</sub> O	_____

## 2. Details of problem specification

- 2.1 Which process do you want to perform?  Grinding  Classifying / Screening
- 2.2 Solids concentration in feed suspension  any \_\_\_\_\_ weight %
- 2.3 Required end-product throughput \_\_\_\_\_ kg of solids/h
- 2.4 Required end-product fineness  $d_{97} =$  \_\_\_\_\_  $\mu\text{m}$ ;  $d_{50} =$  \_\_\_\_\_  $\mu\text{m}$ ;  $d_{10} =$  \_\_\_\_\_  $\mu\text{m}$
- 2.5 Machine design for product-contact components  stainless steel  PUR/rubber  ceramic
- 2.6 Permissible grinding element design  ZrO<sub>2</sub>  Al<sub>2</sub>O<sub>3</sub>  glass  
 chromium steel  other
- 2.7 Undesirable abrasion in end-product permissible \_\_\_\_\_ ppm  
type of abrasion? \_\_\_\_\_
- 2.8 Other requirements \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 2.9 What type of machine has been used up to now?  
What problems occurred?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 2.10 Were preliminary tests carried out by Alpine?  no  yes Test no. \_\_\_\_\_

## 3. Additional information

- 3.1 Flow properties of suspension  normal  average  pasty  
viscosity \_\_\_\_\_ Pas
- 3.2 Particle shape of solid particles \_\_\_\_\_
- 3.3 Can chemical/electrolytic additives be used?  no  yes  
which ones? \_\_\_\_\_
- 3.4 Type of process  continuous  batch
- 3.5 End-product downstream processing  slurry  dry residual moisture \_\_\_\_\_ %H<sub>2</sub>O

3.6 **How do you want the fineness of the end product to be determined?**  Laser diffraction  X-ray sedimentation techniques  
 Other: \_\_\_\_\_

3.7 **Miscellaneous information**  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**4. Information on "hazardous materials"**

In the interests of protecting our staff, machines and buildings, it is essential that we are given details about the risks posed by your product.

We hope you understand that we can neither accept your test material nor carry out tests if we are unable to assess exactly what kinds of risks are posed by your product.

We therefore ask you to answer the questions below conscientiously and to sign to this effect with binding effect.

**4.1 Information that permits an assessment of the personal safety hazard.**

**The product is:**

- |  |                                       |  |
|--|---------------------------------------|--|
| <input type="checkbox"/> extremely toxic       | <input type="checkbox"/> caustic      | <input type="checkbox"/> reprotoxic            |
| <input type="checkbox"/> harmless              | <input type="checkbox"/> toxic        | <input type="checkbox"/> an irritant           |
| <input type="checkbox"/> detrimental to health | <input type="checkbox"/> a sensitizer | <input type="checkbox"/> mutagenic             |
|  |                                       | <input type="checkbox"/> ecologically critical |

4.2 **Is the product carcinogenic?**  no  yes Tech. standard concentration TSC \_\_\_\_\_ ppm  
 or \_\_\_\_\_ mg/m<sup>3</sup>

4.3 **Is the product radioactive?**  no  yes (please give details)  
 \_\_\_\_\_

4.4 **Is the product an anaesthetic as defined by the drug law?**  no  yes (please give details)  
 \_\_\_\_\_

**4.5 Are biological or workplace limit or tolerance values known for the product? If so, what are they?**

- |   |   |
|---|---|
| <input type="checkbox"/> BLV _____ ppm, _____ mg/m <sup>3</sup> | <input type="checkbox"/> BLV _____ ppm, _____ mg/m <sup>3</sup> |
| <input type="checkbox"/> WLV _____ ppm, _____ mg/m <sup>3</sup> | <input type="checkbox"/> WLV _____ ppm, _____ mg/m <sup>3</sup> |
| <input type="checkbox"/> Others _____                           | <input type="checkbox"/> Others _____                           |

4.6 **Is the product dermaresorptive?**  no  yes

**4.7 Recommended protective measures**

**Face mask**  no  yes, what kind

- Filter type  A  B  E  K  
 Filter class  1  2  3  
 Particulate filter  P1  P2  P3

Combination filter

**Safety clothing**  no  yes, what kind

**Eye shield**  no  yes, what kind

**Skin protection**  no  yes, what kind

Further information which permits reducing the risks involved in handling these products:

\_\_\_\_\_  
 \_\_\_\_\_



## 7. Instructions for forwarding test materials

Kindly observe the following when forwarding your test material to us:

- 7.1 By road:  
**Hosokawa Alpine Aktiengesellschaft, attention Mr. /Mrs.  
Peter-Doerfler-Straße 13 - 25, 86199 Augsburg, Germany**
- 7.2 By post:  
**Hosokawa Alpine Aktiengesellschaft, attention Mr. /Mrs.  
P.O. Box 10 11 51, 86001 Augsburg, Germany**

In the case of consignments from abroad, kindly quote the tariff numbers for all test materials in accordance with the Brussels Tariff Nomenclature.

## 8. General information

- 8.1 Hosokawa Alpine AG is not responsible for disposal of the test materials.
- 8.2 The test materials will be returned to the customer after the tests have been carried out.
- 8.3 Hosokawa Alpine AG is not responsible for transport costs and customs clearance.
- 8.4 In the event that HAAG is requested to take care of the disposal, the customer will be invoiced accordingly.
- 8.5 In spite of all efforts to the contrary, contamination of the test material cannot be ruled out. Especially in the case of foodstuffs, the test material is therefore no longer suitable for human consumption after the tests.
- 8.6 In the case of consignments from abroad, kindly quote the tariff numbers for all test materials in accordance with the Brussels Tariff Nomenclature.

**Signature of customer**

**Date, place**

.....

\_\_\_\_\_  
Company stamp and signature

The instructions in this checklist have been duly noted.

**Please be aware that we only can handle the following packaging for test material. A deviation in the packaging might cause repacking, which may cause delay and additional cost for the test.**

**Big Bag's:**                   Maximum height:                   1,30 m  
  Maximum weight:                   1000 kg

**Drums:**                        Maximum volume:                   120 Ltr  
  Maximum weight:                   80 kg

**Sacks:**                         Maximum weight:                   25 kg per sack  
  Maximum pallet height:           1,30 m  
  Maximum pallet weight:           1000 kg

**IBC-Container:**           Maximum weight:                   1200 kg (Slurry)

**Remark:**                    Please don't send us filter cake in drums. Filter cake should be sent in plastic sacks in a box.

If you have any questions please feel free to contact the head of the test center Mr. Isert, Tel.: + 49 821 5906-373, e-mail: [b.isert@alpine.hosokawa.com](mailto:b.isert@alpine.hosokawa.com).