



Dry 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)

Amount of test material: approx. kg _____

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.

1.1 Trade name _____
 1.2 Scientific designation _____
 1.3 Chemical formula _____
 1.4 Feed particle size distr. _____
 d₅₀ = _____ μm
 d₉₇ = _____ μm
 max. top size: _____ μm
 1.5 Density _____ g/dm³
 1.6 Bulk density _____ g/dm³
 1.7 Softening temperature _____ °C
 1.8 Melting point _____ °C

- 1.9 **Degree of hardness (Mohs)** _____
- 1.10 **Moisture content** _____ % H₂O

2. Details of problem specification

2.1 **Which process do you want to perform?** Grinding Classifying / Screening

2.2 **Feed temperature in production process** _____ ° C

2.3 **Does the material contain undesirable constituents, i.e. hard and abrasive contaminants, and what exactly are they?** _____

2.4 **Other material properties**
e.g. greasy, sticky, hygroscopic, etc. _____

2.5 Grinding	Classifying / Screening	
Required fineness	Fines	Coarse material
Max. top size _____ μm	Maximum top size _____ μm	Maximum top size _____ μm
d ₉₇ _____ μm	d ₉₇ _____ μm	d ₉₇ _____ μm
d ₅₀ _____ μm	d ₅₀ _____ μm	d ₅₀ _____ μm
d ₁₀ _____ μm	d ₁₀ _____ μm	d ₁₀ _____ μm
_____ % < _____ μm	_____ % < _____ μm	_____ % < _____ μm
_____ % < _____ μm	_____ % < _____ μm	_____ % < _____ μm
_____ % < _____ μm	_____ % < _____ μm	_____ % < _____ μm
Bulk density _____ g/dm ³	Bulk density _____ g/dm ³	Bulk density _____ g/dm ³
Feed rate _____ kg/h	Feed rate _____ kg/h	
	Fines yield _____ kg/h	

2.6 **Additional information on problem specification**

2.7 **How do you want the fineness of the end product to be determined?** Air jet sieve Laser diffraction

Sedigraph Coulter Counter

Type: _____

Other info.: _____

2.8 **Product sample**

Feed material Sample will be provided yes no

End product Sample will be provided yes no

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. 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.

3.1 Information that permits an assessment of the personal safety hazard.

The product is:

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

3.2 Is the product carcinogenic? no yes Tech. standard concentration TSC _____ ppm or _____ mg/m³

3.3 Is the product radioactive? no yes (please give details) _____

3.4 Is the product an anaesthetic as defined by the drug law? no yes (please give details) _____

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

- | | |
|--|--|
| <input type="checkbox"/> BLV _____ ppm, _____ mg/m ³ | <input type="checkbox"/> BWTV _____ ppm, _____ mg/m ³ |
| <input type="checkbox"/> WLTV _____ ppm, _____ mg/m ³ | <input type="checkbox"/> MWC _____ ppm, _____ mg/m ³ |
| <input type="checkbox"/> Others _____ | _____ ppm, _____ mg/m ³ |

3.6 Is the product dermaresorptive? no yes

3.7 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:

3.8 Fire hazard

- Can the product ignite? no yes, at ambient temperature
- yes, if heated to _____ °C
- yes, in contact with _____

3.9 Reaction risk of test material

- No risk under normal conditions.
- Violent chemical reaction possible. _____
- Becomes unstable when heated to _____ °C _____

3.10 Explosion risk of test material

- There is no risk of explosion under normal conditions.
- The material is potentially explosive under the following conditions:

Which ex-protection zone or class is required? _____

3.11 Dust explosion hazard/information on "explosive dusts"

Specifications as per VDI Directive 2263 "Dust fires and dust explosions":

The material is a potential dust explosion hazard no yes

Dust explosion class St1 St2 St3

K_{St} value [bar · m · s⁻¹] _____

Min. ignition energy [mJ] _____

Min. ignition temperature °C _____

Critical oxygen concentration [% O₂] _____

Explosion parameters:

Max. explosion pressure P_{max} [bar] _____

Max. pressure rise over time $\left(\frac{d_p}{d_t} \right)_{\max}$ [bar · s⁻¹] _____

Type and size of test equipment _____

4. Customs and hazardous substance declaration

KN code	
HS code	
UN no.	
EC no.	
CAS no.	
Tariff no.	

5. Transport and packing instructions for hazardous goods

Transport Route	Hazardous Goods Regulation	Hazard Class	UN No.
Rail	RID/SMGS		
Road	ADR		
Sea	IMDG code		
Air	IATA/DGP		
Sea	IMDG code	<u>Ignition point:</u>	<u>EMS/MFAG no.:</u>
Air	IATA-DGR	<u>Ignition point:</u>	<u>Packing note:</u>

6. Instructions for forwarding test materials

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

- 6.1 By road:
**Hosokawa Alpine Aktiengesellschaft, attention Mr. /Mrs.
Peter-Doerfler-Straße 13 - 25, 86199 Augsburg, Germany**
- 6.2 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.

7. General information

- 7.1 Hosokawa Alpine AG is not responsible for disposal of the test materials.
- 7.2 The test materials will be returned to the customer after the tests have been carried out.
- 7.3 Hosokawa Alpine AG is not responsible for transport costs and customs clearance.
- 7.4 In the event that HAAG is requested to take care of the disposal, the customer will be invoiced accordingly.
- 7.5 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.
- 7.6 In the case of consignments from abroad, kindly quote the tariff numbers for all test materials in accordance with the Brussels Tariff Nomenclature.
- 7.7 Information and data, etc. which become known to the contractual partner shall be treated by the same in utmost confidence. Alpine reserves the right in the event of a violation to take legal steps and to claim damages. Alpine does not transfer any rights with respect to technological processes and machines or equipment in connection with the tests and trials that are carried out.

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.