

Wet Processing Technology

Checklist for test order no. _____


A rapid solution of your processing problems is desired by you as well as by us. We therefore ask you to reply to these questions as exactly as possible. This will help us to avoid unnecessary handling costs and time-consuming inquiries.

We shall of course treat your answers as strictly confidential.

Project handled by

Sender of the test product

Company _____

 Street _____
 City _____
 Country _____
 Division _____
 Name _____
 Phone No. _____
 Date  _____

Company _____

 Street _____
 City _____
 Country _____
 Division _____
 Name _____
 Phone No. _____

To whom should the material be returned after the tests

 Stamp and signature
 The indications of this checklist have been noted

1. Details of test material(s)

If the test material is classified as a "dangerous material", it is essential that Page 3 of the checklist is completed in addition to a separate safety data sheet.

	Solid Matter	Liquid
1.1 Trade name		
1.2 Scientific designation		
1.3 Chemical formula		
1.4 Feed particle size	$d_{50} =$ _____ μm $d_{97} =$ _____ μm max. topsize: _____ μm	
1.5 Density	g/dm ³	g/dm ³
1.6 Max. permissible temp.	°C	°C
1.7 Mohs hardness		_____
1.8 Moisture content	% H ₂ O	_____

2. Details on problem specification

- 2.1 Which process are you interested in? grinding classification
- 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 $d_{97} =$ _____ μm ; $d_{50} =$ _____ μm ; $d_{10} =$ _____ μm
- 2.5 Machine design for product-contact components stainless steel PUR/rubber ceramic
- 2.6 Permissible grinding element design ZrO_2 Al_2O_3 glass
 chromium steel other _____
- 2.7 Undesirable abrasion in end-product permissible _____ ppm
type of abrasion? _____
- 2.8 Other requirements _____

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_2O
- 3.6 What type of machine has been used up to now? _____
What kind of problems arose? _____
- 3.7 Were preliminary trials run at Alpine? no yes test series no.: _____
- 3.8 Fineness analysis of end-product? Laser diffraction X-ray sedimentation techniques
 Other: _____
- 3.9 Miscellaneous information _____

4. Details on "dangerous materials"

To guarantee the safety of our personnel as well as our plant, machinery and buildings, it is imperative that we are informed of the hazards related to your product. We are neither able to accept your test material nor to use it for testing unless we are in a position to judge what the related hazards are.

Kindly answer the following questions as fully as possible and confirm these details by signing at the bottom of this page.

4.1 Details that permit an evaluation of the health risk to persons:

- | | | |
|--|--|------------------------------------|
| <input type="checkbox"/> harmless | <input type="checkbox"/> caustic | <input type="checkbox"/> mutagenic |
| <input type="checkbox"/> extremely toxic | <input type="checkbox"/> irritant | <input type="checkbox"/> eco-toxic |
| <input type="checkbox"/> toxic | <input type="checkbox"/> sensitization agent | |
| <input type="checkbox"/> noxious | <input type="checkbox"/> can cause infertility | |

4.2 Safety recommendations as per Dangerous Goods Directive, Appendix I:

R guidelines _____ S guidelines _____

4.3 Maximum permissible workplace concentration = _____ mg/m³ _____ ppm

4.4 Are the materials carcinogenic as defined in Section III of the list on max. permissible workplace concentrations?

no yes technical ref. value _____ mg/m³ _____ ppm

	Solid Matter		Liquid	
Are the materials subject to the:	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes
• Law on narcotics? (BTMG or national directives)	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes
• Radiation protection directive?	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes

4.5 Recommended safety measures (please tick accordingly)

Filter type A B E K
Filter class 1 2 3
Particulate filter P1 P2 P3
Combination filter: _____

Protective clothing: no yes what type? _____

Further information that permits minimising the risk in handling these materials:

4.6 Fire hazard

Is the material flammable?

Solid Matter

- no
 yes, at: _____
 ambient temperature
 when heated to _____ °C

Liquid

- no
 yes
 flash point
 ignition temperature
 explosion threshold

Suspension

- no
 yes, at: _____

4.7 Explosion risk of test materials

- No explosion risk under normal circumstances.
 Which Ex-safety zone or class is required? _____
 An explosion risk is present under the following conditions:

5. Test material

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

6. Customs and dangerous goods declaration

	Solid Matter	Liquid
KN no.		
HS no.		
UN no.		
EG no.		
CAS no.		

7. Transport and packing information (dangerous goods)

Mode of transport	Dangerous goods directive	Solid Matter		Liquid	
		Hazard class	Code/UN no.	Hazard class	Code/UN no.
Rail	RID/SMGS				
Road	ADR				
Sea	IMDG code				
Air	IATA/DGP				
Sea	IMDG code	<u>Flash point:</u>	<u>EMS/MFAG no.:</u>	<u>Flash point:</u>	<u>EMS/MFAG no.:</u>
Air	IATA-DGR	<u>Flash point:</u>	<u>Package note:</u>	<u>Flash point:</u>	<u>Package note:</u>

8. Dispatch and forwarding information:

The following information is aimed to assist you in sending us your test materials.

- Rail freight and express mixed cargo:
Augsburg main railway station (Augsburg Hauptbahnhof)
- Express consignments:
Augsburg main railway station (Augsburg Hauptbahnhof)
- Lorry forwarding:
Augsburg-Göggingen, Peter-Dörfler-Str. 13–25
- By post:
HOSOKAWA ALPINE Aktiengesellschaft & Co. OHG
P.O. Box 101151, D-86001 Augsburg, Germany

All consignments from abroad must be marked with the tariff headings for the test materials in accordance with the Brussels nomenclature.

HOSOKAWA
ALPINE Aktiengesellschaft & Co. OHG

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