



c/o **AAAmachine, Inc.** (osaka-g777@aaamachine.com, **Fax: 1-847-376-3530**)

Engineering Data Sheet (EDS) -Confidential Tel : 1-847-481-8264 Fax : 1-847-376-3530

Company : _____ Department : _____
Address : _____
City : _____ State : _____ Zip code : _____ Country : _____
Telephone : _____ Fax : _____

Submitted by : _____ Title : _____ Date : _____

1. Material (Please include MSDS along with this form)

- 1.1 Trade Name : _____
- 1.2 Chemical Name : _____
- 1.3 Amount of Material supplied : _____
- 1.4 Container type : _____
- 1.5 Sample delivery date : _____
- 1.6 Delivery method : _____

2. Purpose (Please check)

- 2.1 Preliminary equipment evaluation
- 2.2 Product evaluation
- 2.3 Contract manufacturing

3. Process Requested (please check)

- 3.1 Grinding only
- 3.2 Grinding and classification
 - closed circuit system open circuit system

3.3 Other _____

4. Feed Material Characteristics

- 4.1 Maximum particle size (microns) : _____
- 4.2 Medium particle size (microns) : _____
by (measuring method) : _____
- 4.3 Bulk density (loose) (g/cm³) : _____
- 4.4 Specific gravity : _____
- 4.5 Please check all those which applies
 - abrasive poisonous cohesive, adhesive
 - explosive electrostatic other

5. Requirements :

5.1 End product should be :

- Fine fraction Coarse fraction Middle fraction

5.2 Desired particle size distribution of the end product : control sample shipped with feed

- above _____ microns, _____ %
- below _____ microns, _____ %

comments : _____

5.3 Feed rate (kg/hr) : _____

5.4 Estimated production rate of end product (kg/hr) : _____

5.5 Please specify which of the following requirements is most important :

- to get strict particle diameter rather than yield
- to get certain yield rather than strict particle diameter
- other _____

5.6 Minimum amount of target sample required for customer's evaluation : _____

5.7 Rest of tested and non-tested material should be :

- Shipped back (collect) Carrier: _____ Account No.: _____
- Shipped back (prepaid if you do not have a carrier account), Other

* The remained material may not be disposed of by Nisshin because of environmental regulation.

6. Particle Characterization

6.1 We have the following measuring apparatus. Please choose one.

- Coulter counter Multisizer III Aperture : _____ microns
- Microtrac (laser, wet) GT-3300EX Microtrac (laser, wet) X-100
- Microtrac (laser, wet) FRA Mastersizer (laser, dry method)
- Standard sieve Air Jet Sieve
- BET surface area Blaine surface area
- SEM electronic microscope Osaka Gas Liquid recommended method

6.2 Dispersion condition :

- Liquid and/or Media : _____
- Wet reagent : _____
- Ultrasonic wave bath (sec./min.) : _____
- Other : _____

7. Please specify contamination allowance (if required) : _____

8. Have you processed this material before? Please describe results.

CONFIDENTIALITY

Osaka Gas Liquid will hold in confidence the identification of your sample, and confidentially marked specifications from you, the date we generate, and the results we provide to you. Osaka Gas Liquid will dispose all excess sample material, unless make specific provision for its return.

MATERIAL SAFETY DATA SHEETS (MSDS) ARE REQUIRED BEFORE SAMPLES CAN BE PROCESSED.