

Engineering Data Sheet (EDS) -Confidential Tel : +81-49-264-3049 Fax : +81-49-269-6850

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 evaluation2.2 Product evaluation2.3 Contract manufacturing

3. Process Requested (please check)

3.1 Air classification only****NOTICE** Maximum particle size of sample material :****must be under 0.5mm (for TC-15, 25), 3.0mm (for TC- 40, 60, 100) .******You have responsibility to pay for any damage to test equipment incurred with forbidden large particles.**3.2 Grinding and classification closed circuit system open circuit system3.3 Grinding only3.4 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 II 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 Nisshin 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

Nisshin 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. Nisshin dispose all excess sample material, unless make specific provision for its return.

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