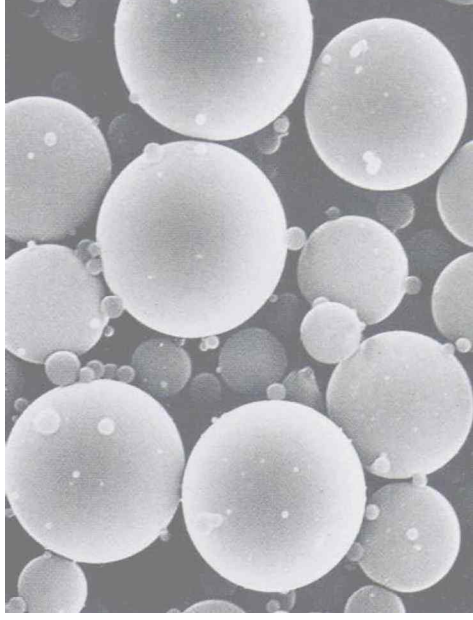
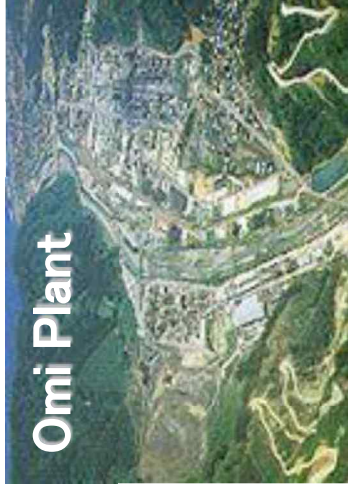


DENKA SPHERICAL SILICA



CERAMICS RESEARCH CENTER
4th PRODUCTION DEPARTMENT
DENKA Co., Ltd.

DENKA MAIN PLANTS in JAPAN



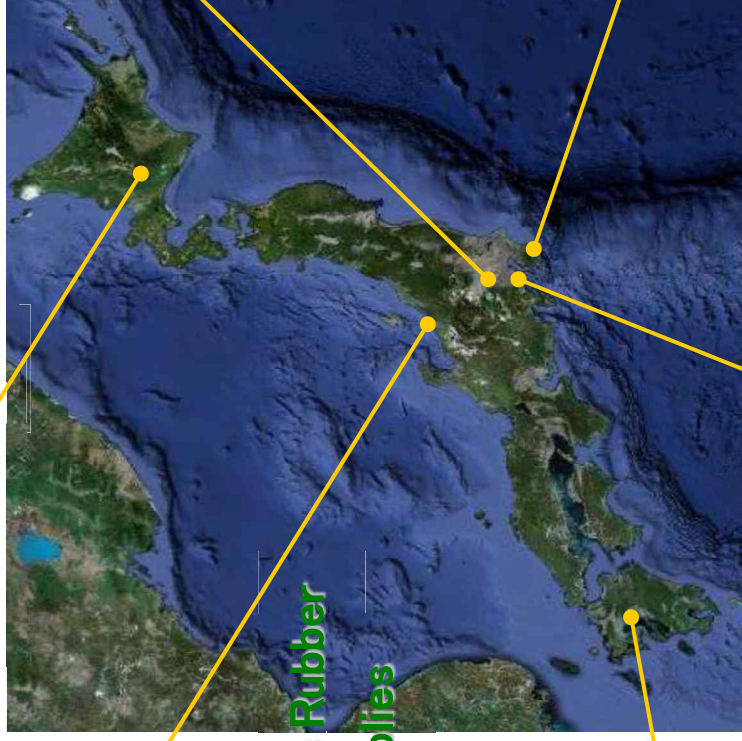
Omi Plant

Inorganic Materials, Synthetic Rubber
Special Cement, Medical Supplies



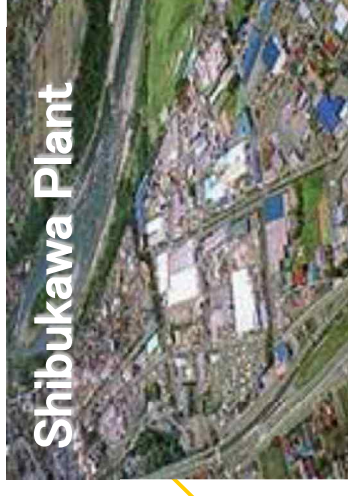
Omuta Plant

Fine Ceramics, Electronic Materials
Special Cement, Spherical Silica, Spherical Alumina



Bibai Plant Plastic Products

Ofuna Plant, Kawasaki Plant
Plastic Products



Shibukawa Plant

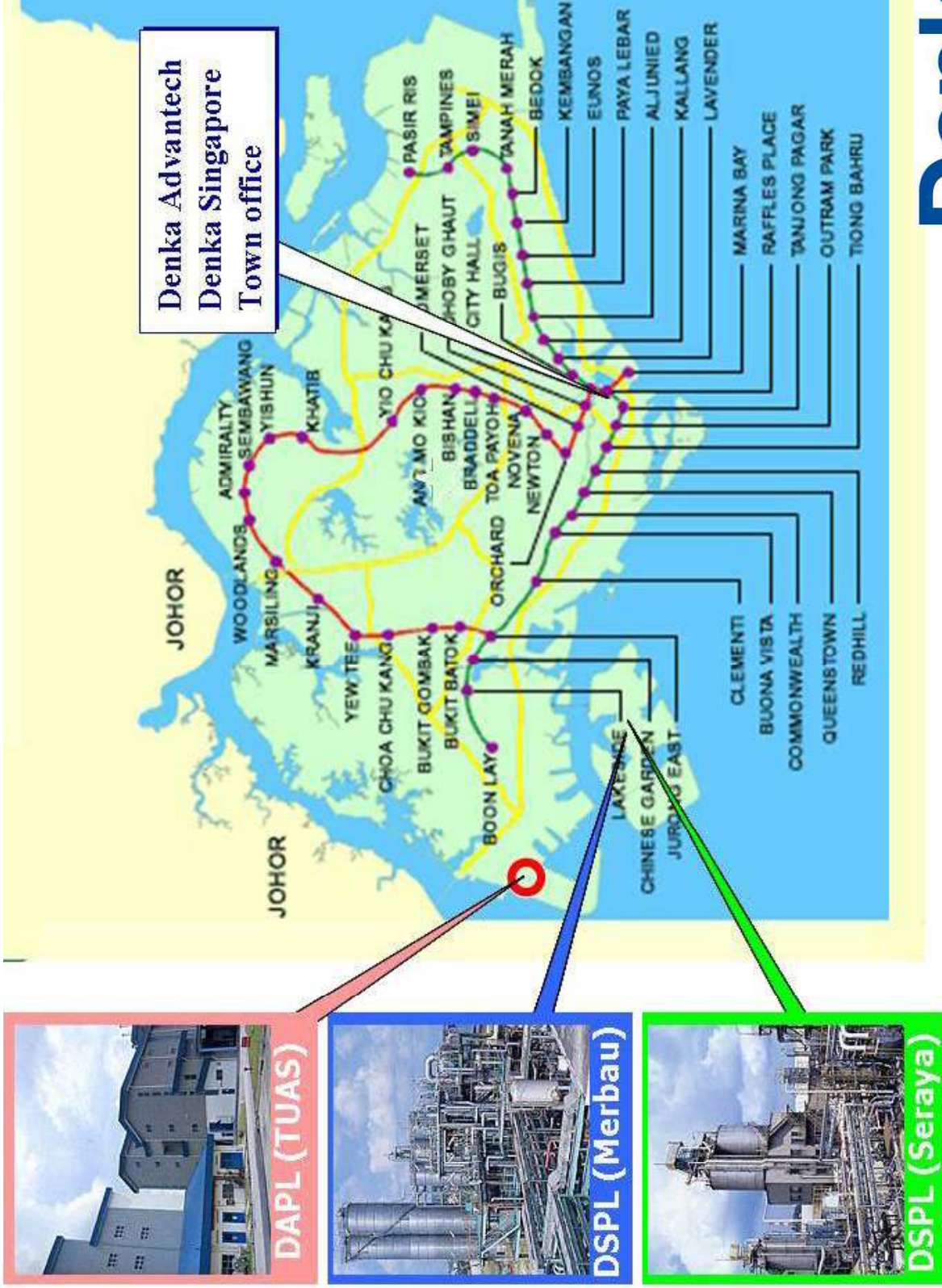
Electronic Materials
High-performance Adhesive



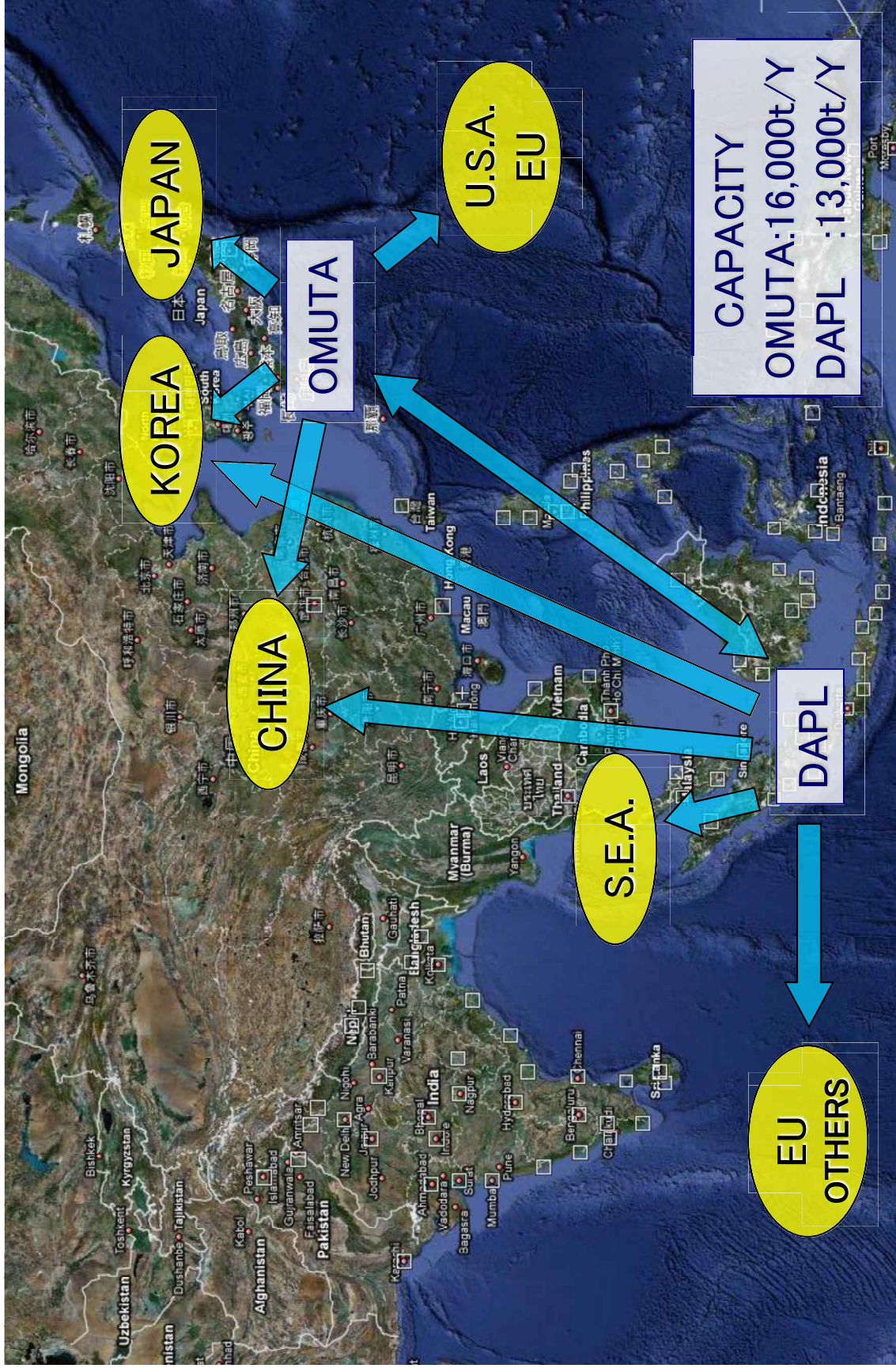
Chiba Plant

Plastic Products
High-performance Resin

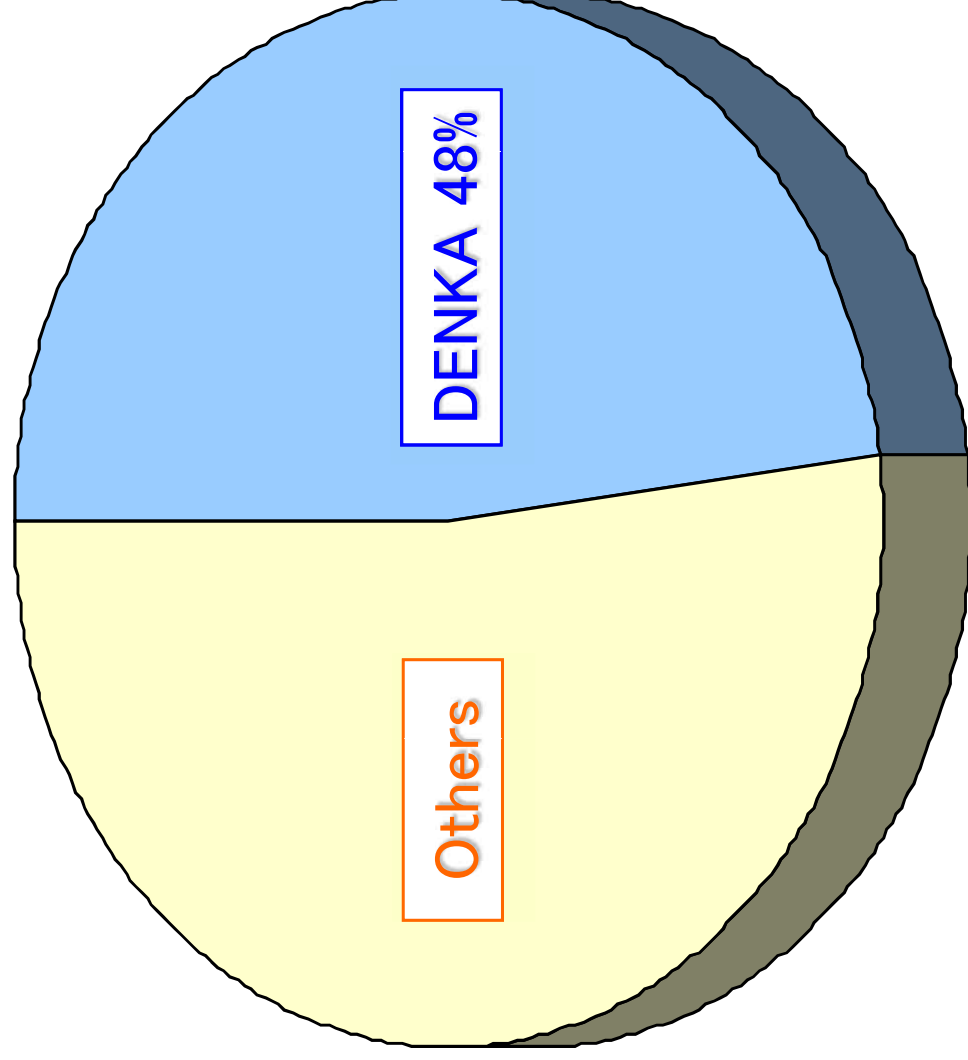
DENKA MAIN PLANTS in SINGAPORE



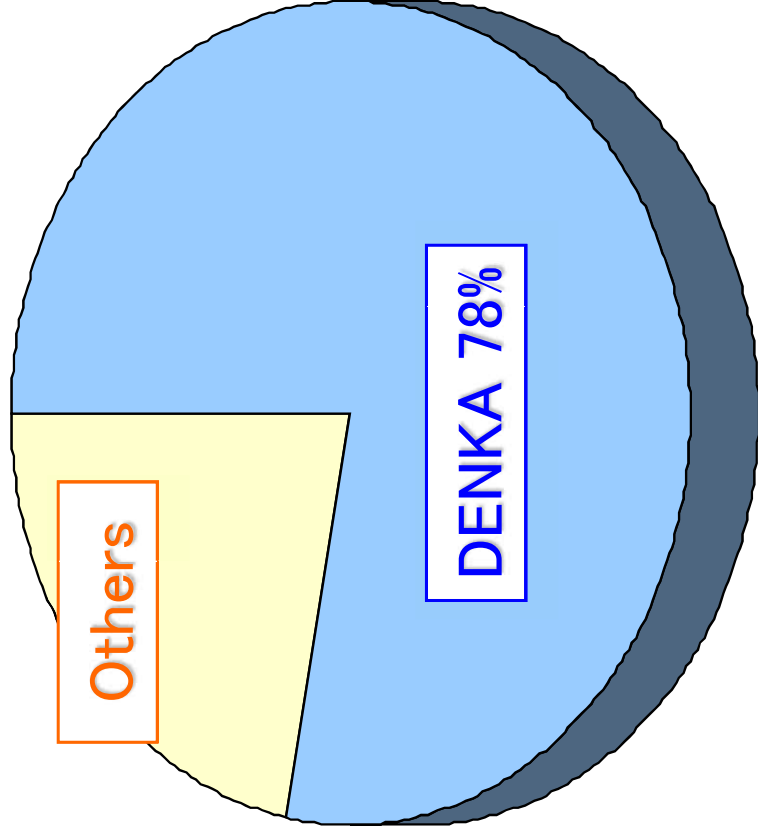
SPHERICAL SILICA SUPPLY SYSTEM



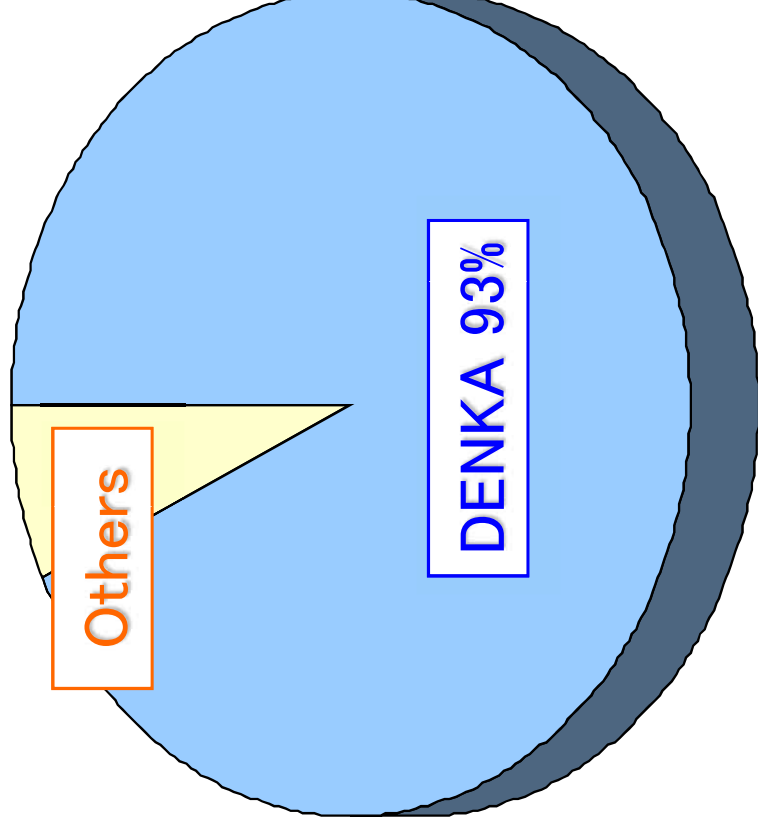
SPHERICAL SILICA VOLUME SHARE



SPHERICAL SILICA PATENT SHARE

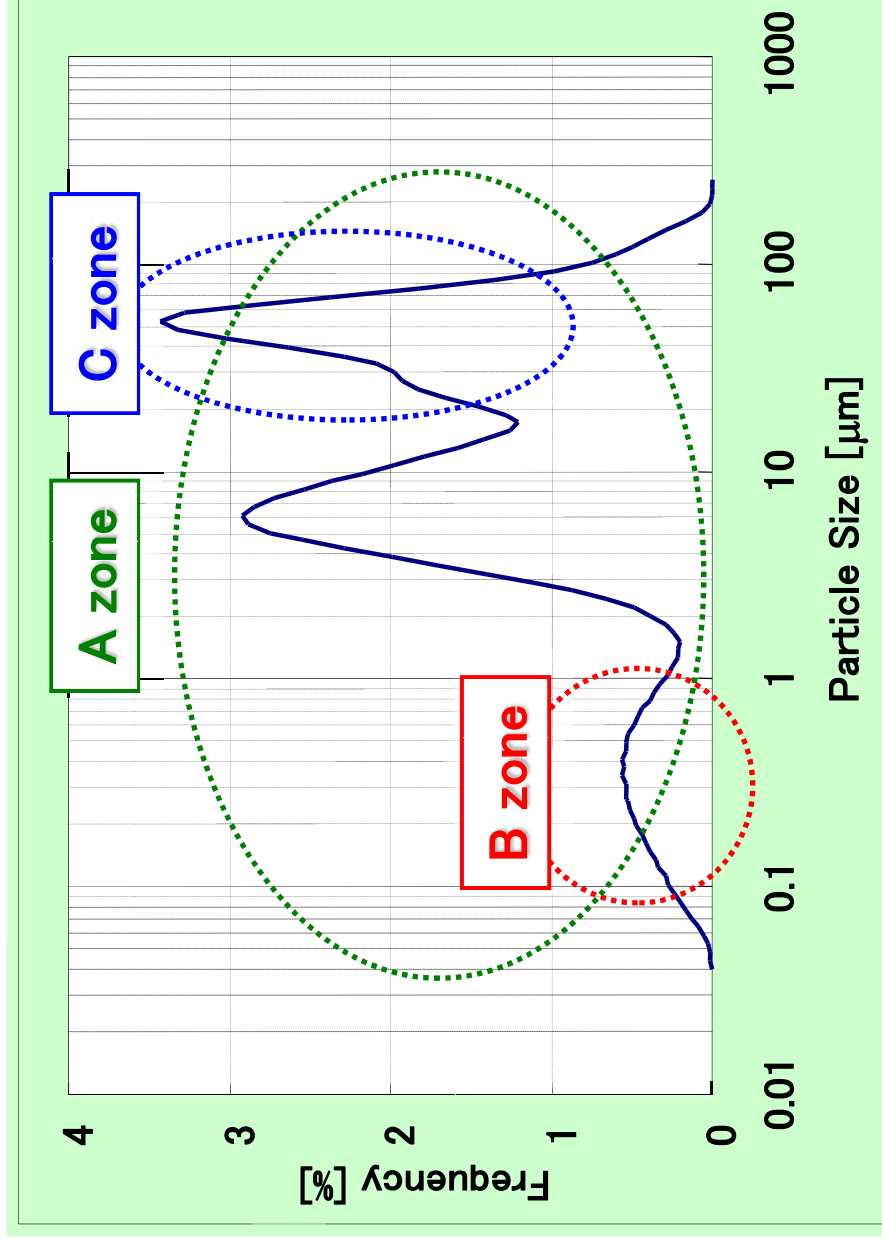


Registration Patent



Publication Patent

SILICA POWDER PACKING THEORY



A zone

Ideal particle size distribution is the Horsfield's packing model

B zone

To add the Super Fine Powder (0.2 – 0.8 μm)

C zone

To have the Higher Sphericity

TopSecret

Confidential

SPHERICAL SILICA GRADE LIST

Performance				
Generation	Grade	A zone	B zone	C zone
6th Generation	Under Development	◎	◎	◎
5th Generation	FB-500 series	◎	○	◎
4th Generation	FB-900 series	◎	○	○
3rd Generation	FB-100, 800 series	○	△	○
2nd Generation	FB-20S, 24R	△	△	△
1st Generation	FB-74, 60	×	×	△

◎:BEST ◐:BETTER △:GOOD

SPHERICAL SILICA GRADE LIST (FINER CUT TYPE)

70 μm (Standard)	Introduced (1 st ~ 5 th Generation)
55 μm (-FC type)	FB-870FC FB-105FC FB-950FC
45 μm (-FD type)	FB-970FD FB-105FD FB-950FD

FB-7SDC
FB-5SDC
FB-3SDC

- 30 μm
- 25 μm
- 20 μm
- 10 μm
- <10 μm

SFP-20M
SFP-30M

