Local Insight, Global Impact

High Purity TiO_2

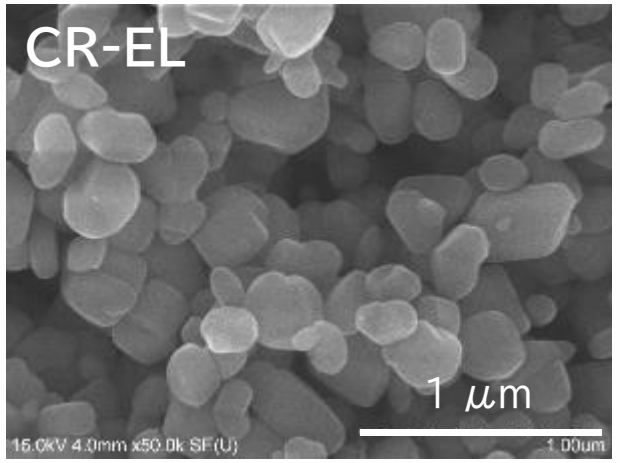
Inorganic Chemicals Business
Headquaters
Electronic Materials Business Division
R&D Group

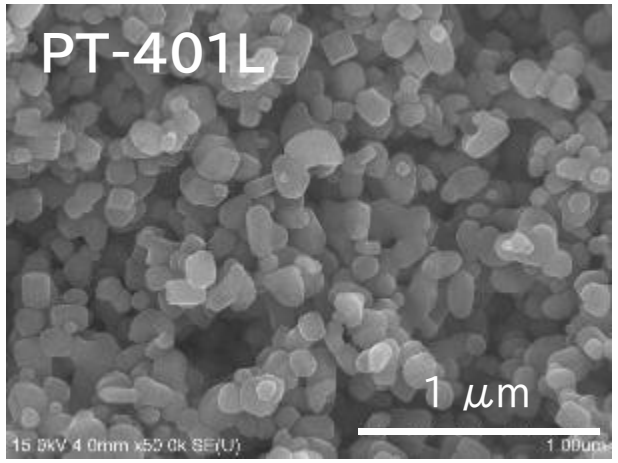
Large / Middle Particle Size High Purity TiO_2

CR-EL and PT-401L are titanium dioxide products synthesized by the gas phase method, featuring uniform particle size distribution and low chlorine content. They are used as raw materials for complex oxides such as dielectric materials. Customized products with controlled specific surface area, particle size, and rutile ratio can be developed upon request.

Grade		CR-EL	PT-401L
TiO_2 content (%)		99.9↑	99.99↑
Rutile ratio (%)		99	70
SSA (m^2/g)		7	13
Impurity	Fe_2O_3	0.0031	0.0025
	Al_2O_3	0.006	<0.001
	SiO_2	0.0013	<0.001
	Nb_2O_5	<0.001	0.001
	Na_2O	0.002	0.001
	Cl	<0.003	<0.003

SEM Image





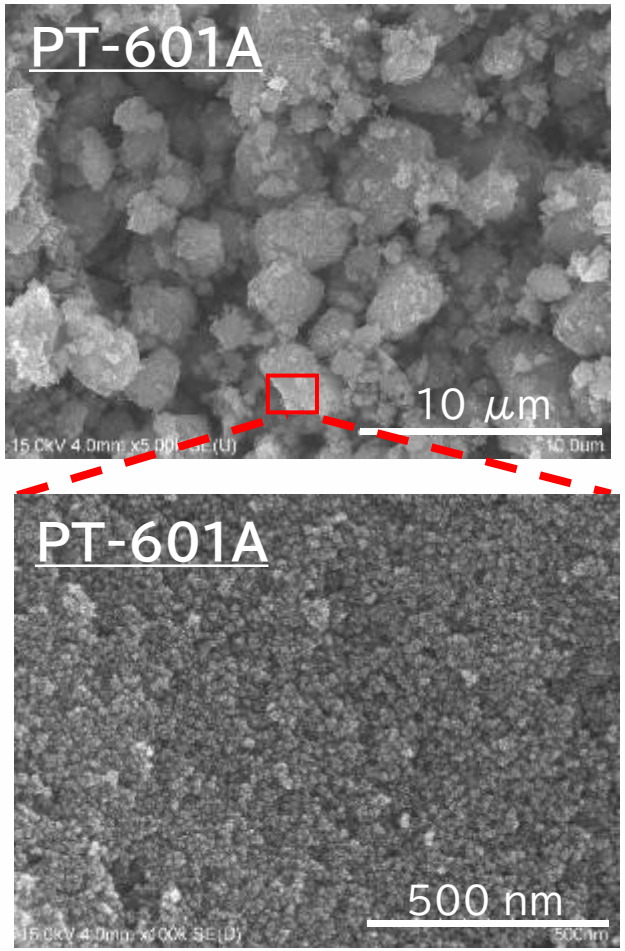
The above values are typical values that are not guaranteed.

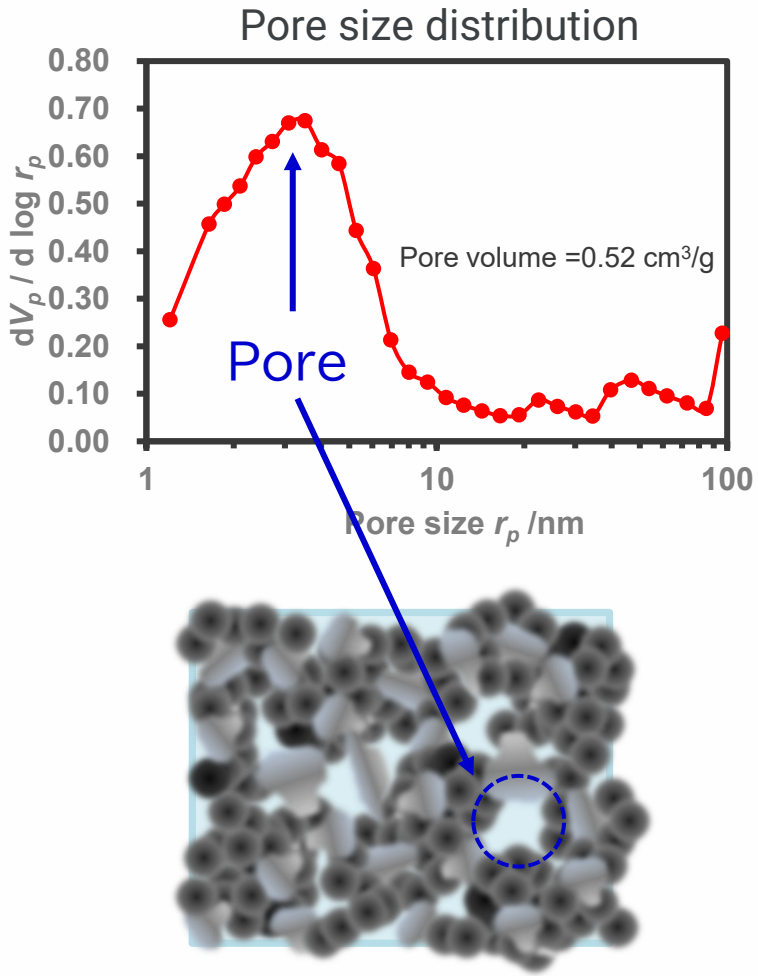
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Small Particle Size (High SSA) High Purity TiO_2

PT-601A is a high-purity anatase titanium dioxide with a high SSA developed for electronic material applications. It is a titanium dioxide consisting of agglomerates of primary particles several nm in size, with a specific surface area of approximately 300 m^2/g, and is a titanium dioxide material with pores of approximately 1 to 10 nm.

Grade		PT-601A
TiO_2 content (%)		99.9↑
Rutile ratio (%)		0.1↓
SSA (m^2/g)		350
Impurity	Fe_2O_3	<0.001
	Al_2O_3	<0.004
	SiO_2	0.002
	Nb_2O_5	<0.003
	Na_2O	<0.001
	Cl	<0.01





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