

Silicon Carbide Ultrafine GP#10000

GP#10000 is an average particle size of 0.7 μ m product consisting of green silicon carbide.

■ Applications :

Ultrafine powders are mostly used for four types of applications listed below, and GP#10000 is suitable for all of them.

① Raw material for sintered parts

GP#10000 is used as a raw material for fine ceramics that is used to manufacture filters, heating elements, etc.

② High purity raw material for sintered parts

GP#10000 contains low levels of impurities which made it possible to make fine ceramics with high purity for semiconductor manufacturing equipments, etc.

③ Fire resistant, abrasion resistant, high thermal conductivity fillers

Silicon carbide has heat resistant and high thermal conductivity, and GP#10000 is thus used as composite materials (filler materials).

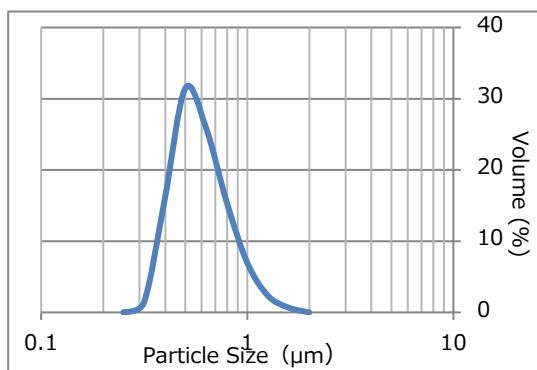
④ Coating & composite plating materials

GP#10000 is used as a composite plating material to enhance fire resistance and abrasion resistance of automobile and aircraft components.

■ Product property (standard value) :

Product	Particle size (μ m)			Contained substances (wt%)			Specific surface area (m ² /g)
	D-10%	D-50%	D-90%	SiC	Cf	Fes	
GP#10000	≤ 2.0	0.6~0.8	≥ 0.4	≥ 98.0	≤ 2.0	≤ 0.3	≥ 12.0

■ Particle size distribution and particle image :



SEM $\times 5000$

