

High Purity Silicon Nitride Powder

High purity silicon nitride powder is a beta (β) particle product that has low levels of impurities. We now offer an average particle size of 3.0 μ m product named "SSN- β 2".

■ Applications:

①Raw material for sintered parts

High purity silicon nitride powder has very low levels of impurities and oxygen. It is used as a raw material for silicon nitride(Si3N4) ceramics that need high bending strength, hardness and toughness.

②Filler material

Beta(β) type of high purity silicon nitride powder has high thermal conductivity among insulation fillers, so that it is used for a composite material.

③Raw material for phosphor

High purity silicon nitride powder is used as a raw material for Sialon phosphor in LED & LCD industry.

■ Product property (standard value):

Product	Crystal structure (%)		Average	Contained substances			
	α Si ₃ N ₄	β Si ₃ N ₄	particle size (µm)	C (%)	Fe (%)	AI (%)	Ca (%)
SSN-β2	<10	90<	2.0~4.0	≦2.0	≦0.5	≦0.5	≦0.5

■ Particle size distribution and particle image:





