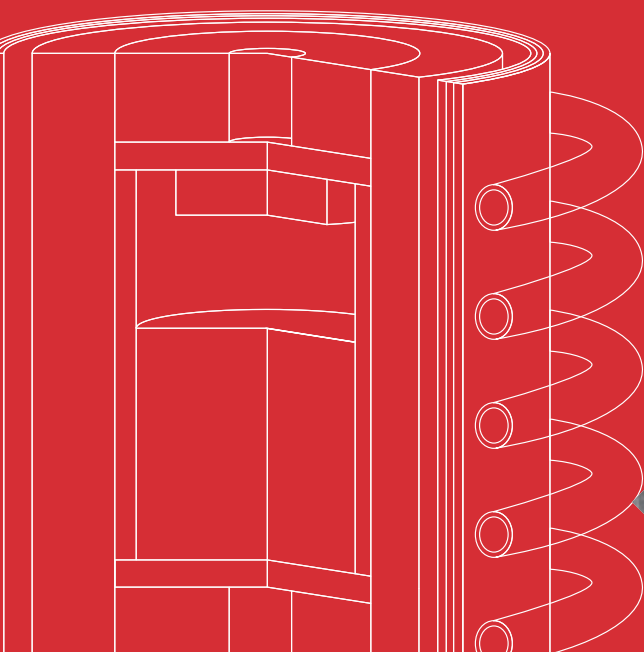




KC INDUSTRIAL

β -SiC powder

KCINDUSTRIAL

KSPM SiC powder for N-type

High-purity silicon carbide powder for the production of power semiconductors

Metal impurities

Elements	Unit	Value
Mg	ppm	≤0.05
Al	ppm	≤0.10
Na	ppm	≤0.05
K	ppm	≤0.10
Ca	ppm	≤0.20
Ti	ppm	≤0.05
V	ppm	≤0.09
Cr	ppm	≤0.01
Mn	ppm	≤0.03
Fe	ppm	≤0.20
Ni	ppm	≤0.05
Co	ppm	≤0.05
Cu	ppm	≤0.02
Purity	%	≥99.9999

Analysis by ICP-MS

Size variation

Particle Size	Product name
65μm	KSP65M
120μm	KSP120M
240μm	KSP240M
450μm	KSP450M
650μm	KSP650M
1~2mm	KSP1500M
2~3mm	KSP2500M
3~5mm	KSP4000M
5~7mm	KSP6000M
7~10mm	KSP8500M
10~13mm	KSP11500M
13~16.5mm	KSP14750M
17~21mm	KSP19000M

Size can be adjusted upon request

Density

Test Items	Unit	Packing density	Tap density
KSP65M	g/cm ³	1.53	1.73
KSP120M	g/cm ³	1.55	1.71
KSP240M	g/cm ³	1.65	1.86
KSP450M	g/cm ³	1.57	1.81
KSP650M	g/cm ³	1.59	1.81
KSP1500M	g/cm ³	1.6	1.81
KSP2500M	g/cm ³	1.69	1.88
KSP4000M	g/cm ³	1.76	1.97

SIMS Analysis Result

Elements	Unit	Value
N	ppm wt	≤9.00
B	ppm wt	≤0.50

KSPH SiC powder for Si-SiC

*High-purity silicon carbide powder for the production of
RF semiconductors*

Metal impurities

Elements	Unit	Value
Mg	ppm	≤ 0.05
Al	ppm	≤ 0.10
Na	ppm	≤ 0.05
K	ppm	≤ 0.10
Ca	ppm	≤ 0.20
Ti	ppm	≤ 0.05
V	ppm	≤ 0.09
Cr	ppm	≤ 0.01
Mn	ppm	≤ 0.03
Fe	ppm	≤ 0.20
Ni	ppm	≤ 0.05
Co	ppm	≤ 0.05
Cu	ppm	≤ 0.02
Purity	%	≥ 99.9999

Analysis by ICP-MS

Size variation

Particle Size	Product name
65 μ m	KSP65H
120 μ m	KSP120H
240 μ m	KSP240H
450 μ m	KSP450H
650 μ m	KSP650H
1~2mm	KSP1500H
2~3mm	KSP2500H
3~5mm	KSP4000H
5~7mm	KSP6000H
7~10mm	KSP8500H
10~13mm	KSP11500H
13~16.5mm	KSP14750H
17~21mm	KSP19000H

Size can be adjusted upon request

Density

Test Items	Unit	Packing density	Tap density
KSP65H	g/cm ³	1.53	1.73
KSP120H	g/cm ³	1.55	1.71
KSP240H	g/cm ³	1.65	1.86
KSP450H	g/cm ³	1.57	1.81
KSP650H	g/cm ³	1.59	1.81
KSP1500H	g/cm ³	1.6	1.81
KSP2500H	g/cm ³	1.69	1.88
KSP4000H	g/cm ³	1.76	1.97

SIMS Analysis Result

Elements	Unit	Value
N	ppm wt	≤ 0.15
B	ppm wt	≤ 0.50

KSPL SiC powder for Sintering and coating

Silicon carbide powder for the production of semiconductor components and coating

Metal impurities

Elements	Unit	Value
Mg	ppm	≤ 70.0
Al	ppm	≤ 70.0
Na	ppm	≤ 70.0
K	ppm	≤ 70.0
Ca	ppm	≤ 70.0
Ti	ppm	≤ 70.0
V	ppm	≤ 70.0
Cr	ppm	≤ 70.0
Mn	ppm	≤ 70.0
Fe	ppm	≤ 70.0
Ni	ppm	≤ 70.0
Co	ppm	≤ 70.0
Cu	ppm	≤ 70.0
Purity	%	≥ 99.9

Analysis by ICP-MS

Size variation

Particle Size	Product name
15 μ m	KSP15L
28 μ m	KSP28L
65 μ m	KSP65L

SIMS Analysis Result

Elements	Unit	Value
N	ppm wt	≤ 9.00
B	ppm wt	≤ 0.50