

LSP Industrial Ceramics, Inc.

Silicon Carbide Tubes



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*Reaction Bonded &
Recrystallized*



Catalog No. Recrystallized	Catalog No Reaction Bonded	Inside Diameter	Outside Diameter	Maximum Length
RCT 51658	RBT51658	5/16"	5/8"	36"
RCT381116	RBT381116	3/8"	11/16"	42"
RCT1278	RBT1278	1 /2"	7/8"	42"
RCT9161	RBT9161	9/16"	1"	60"
RCT78114	RBT78114	7/8"	1-1/4"	72"
RCT1138	RBT1138	1"	1-3/8"	84"
RCT118112	RBT118112	1-1/8"	1-1/2"	84"
RCT138134	RBT138134	1-3/8"	1-3/4"	84"
RCT1122	RBT1122	1-1/2"	2"	84"

Physical Properties	Unit	Recrystallized	Reaction Bonded
SIC-content	%	>99	90
Free Si-content	%	<u>< 0,1</u>	8-12
Density	g/cm ³	2, 6-2, 7	3, 0-3, 1
Open Porosity	%	15-19	< 0,1
Flexural Strength @20°C	MPa	90-100	230
@1300°C	MPa	100-110	250
Compressive Strength	MPa	300	1000
Youngs Modulus at 20°C	GPa	230	360
Thermal Conductivity	W-(m -K)- ²	30	90
Coefficient of thermal Expansion (20°, 1000°C)	10-6/K	4,5	4,3
Maximum temperature In oxidizing atmosphere	°C	1600	1350
In vacuum atmosphere	°C	2000	1350