

CERAMIC HONEYCOMB CATALYST CARRIER

Chemical Gas & Liquid Treatment

Application: Petrochemical,
Pharmacy Industrial & Wast
incineration

We customize all products and
materials to individual customer
needs and specifications.

50 - 600 Cells Catalytic Carrier

Specification

Number of Cells (CPSI)	Wall Thickness (mm)	Cell Width (mm)	Cell Area (mm ²)	Void Fraction	Specific Surface area (m ² /m ³)	Density (kg/m ³)
50	0.69	2.95	8.70	65%	650	565
50	0.67	2.97	8.82	66%	659	565
50	0.64	3.00	9.00	67%	672	565
100	0.40	2.13	4.55	71%	1323	465
100	0.38	2.15	4.64	72%	1334	465
100	0.35	2.18	4.78	74%	1354	465
200	0.26	1.53	2.34	72%	1859	435
200	0.24	1.55	2.40	74%	1920	435
200	0.21	1.58	2.49	77%	1957	435
300	0.25	1.22	1.48	67%	2200	500
300	0.22	1.25	1.55	70%	2260	500
300	0.19	1.28	1.63	74%	2310	500
400	0.23	1.04	1.08	67%	2579	480
400	0.20	1.07	1.75	71%	2654	480
400	0.17	1.10	1.21	75%	2728	480
600	0.23	0.81	0.65	61%	3002	580
600	0.20	0.84	0.70	65%	3114	580
600	0.17	0.87	0.75	70%	3225	580

Bulk Density

- 100 CPSI - 0.46 g/cm³ ±15%
- 200 CPSI - 0.43 g/cm³ ±15%
- 300 CPSI - 0.50 g/cm³ ±15%
- 400 CPSI - 0.48 g/cm³ ±15%

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Physical Performance

Material		200 CPSI	400 CPSI
Item			
Compressive Strength (MPa)	A Axis	15.0	15.0
	B Axis	1.5	1.5
	C Axis	0.2	0.2
Water Absorption (%)	Minimum	18.6	17.8
	Maximum	23.4	20.7
	Average	22.1	19.6
Pore Volume	cm ³ /g	0.18-0.24	0.18-0.24
Thermal Expansion Coefficient	20-1000°C (10 ⁻⁶ /K)	1.5	1.8
Thermal Conductivity	25-600°C (W/m·K)	1.5-1.6	1.5-1.6
Specific Heat Capacity (J/g·K)	100 °C	0.80	0.80
	200 °C	0.95	0.95
	300 °C	2.00	2.00
Softening Temperature	°C	1380	1380
Shrinkage Ratio (%) After 100h	1200 °C	0.5	0.1
	1450 °C	2.0	2.5
Heating Rate (°C/min)	20-1000 °C	5.0	5.0

Chemical Composition

Material Composition	Stoneware	Cordierite	Mullite Cordierite	Mullite
SiO ₂ (%)	69-71	46-48	29-30	27-28
Al ₂ O ₃ (%)	18-30	34-37	68-69	70-71
MgO (%)	0.15-0.20	7.00-7.50	--	--
K ₂ O+Na ₂ O+CaO (%)	3.00-3.30	2.50-2.90	0.70-0.90	0.80-1.20
Fe ₂ O ₃	0.70-0.90	0.70-0.90	0.50-0.70	0.50-0.70
TiO ₂ +BaO	0.20-0.25	0.30-0.40	--	--