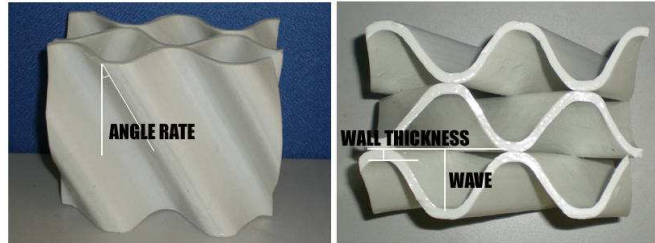
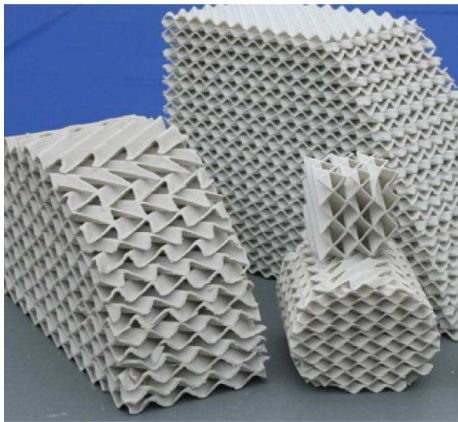


CELL PAK CORRUGATED MEDIA



Chemical composition

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	CaO	MgO	Burning loss
72	23	0.5	1.0	1.0	5.0

Physical properties

Density	Water adsorption	Operation temperature	Thermal shock resistance	Compressive strength	Acid resistance	Mohs Hardness
2.5	0.5	800°C	0-180□	130MPa	99.8	7

Type.	Specific surface m ² /m ³	Bulk density kg/ m ³	Void ratio %	Obl. angel	Pressure drop mmHg/m	Theo. plate m ⁻¹	Hydraulic diameter mm	Liquid load m ³ /m ² h	Max. Factor m/s (Kg/m ³) ⁻¹
125Y	125	320	90	45 ⁰	1.8	1.8	28	0.2-100	3.0
160Y	160	370	85	45 ⁰	2	2	15	0.2-100	2.8
250Y	250	450	80	45⁰	2	2.5	12	0.2-100	2.6
350Y	350	470	78	45 ⁰	2.5	2.8	10	0.2-100	2.5
400Y	400	500	75	45 ⁰	3	3	8	0.2-100	2.0
450Y	450	520	72	45 ⁰	4	4	7	0.2-100	1.8
550Y	550	620	74	45 ⁰	5.5	5-6	6	0.18-100	1.4
700Y	700	650	72	45 ⁰	6	7	5	0.15-100	1.3
100X	100	280	92	30 ⁰	1.5	1	30	0.2-100	3.5
125X	125	300	90	30 ⁰	1.8	1.5	28	0.2-100	3.2
160X	160	350	85	30 ⁰	2	1.8	15	0.2-100	3.0
250X	250	380	80	30 ⁰	2.5	2.3	12	0.2-100	2.8
350X	350	450	78	30 ⁰	3	2.5	10	0.2-100	2.6
400X	400	480	75	30 ⁰	4	2.8	8	0.2-100	2.2
450X	450	500	72	30 ⁰	4.5	3-4	7	0.2-100	2.0
470X	470	440	75	30 ⁰	5	5	7	0.2-100	1.8



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550X	550	620	74	30 ⁰	5.5	5-6	6	0.18-100	1.4
700X	700	650	72	30 ⁰	6	7	5	0.15-100	1.3

Remarks: X=30°, Y=45° (corrugated angle of inclination)

PHYSICAL & CHEMICAL PROPERTIES

MATERIAL SAFETY DATA SHEET**1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY**

PRODUCT: Ceramic honeycomb monolith , material: Cordierite any dimentions

MANUFACTURER: Hisina Industrial Co.,Ltd.

DATE OF ISSUE: APR. 10, 2008

2. COMPOSITION:

	Percentage	Carcinogen (Y/N)
Aluminum Oxide	46-50	N
Silicon Dioxide	44-45	Y
Iron Oxide	0-1	N
Tianium Dioxide	0-1	N
Calcium Oxide	0-1	N
Magnesium Oxide	8-9	N
Sodium Oxide	0-4	N

The ceramic honeycomb are not a regulated chemical as they don't release or otherwise result in exposure to a hazardous chemical under normal conditions of use.

3. PHYSICAL AND CHEMICAL DATA

STATE OF AGGREGATION: SOLID

SPECIFIC GRAVITY: 2.2g/cm³SOLUBILITY: in water: insoluble
in alcohol: insoluble
other solvents: insoluble

SOFTEN POINT: 1400C

4. FIRE AND EXPLOSIVE HAZARD DATA

As sold the material is inflammable and there is no risk for fire or explosive

5. CORROSIVITY AND REACTIVITY

Silicate Products may react, although not violently, with hydro fluoric acid or active fluorides.

6. HEALTH, FIRST AID AND MEDICAL DATA

a) INHALATION: In normal use dust creation is not possible. Dust can only be created in case of machining, grinding or similar operations normally not foreseen for this products. If dust is created, there is the possibility of breathing in irritant powders. Prolonged exposure to Silica can lead to silicosis. Silica may be a possible carcinogen. More than 97 % of the Silica in this material is chemically bound as Silicates and glass-phase. The content of Silica in the dust of this material is very, very low.

b) SKIN: Absorption: n/a

Handling: These articles are hard and abrasive and may have sharp broken edges.

c) EYE: Dust may cause irritation. Breaking the material may result in fine and sharp fragments.

In case of contact: irrigate with water. Do not wipe away fragments or particles. Call for medical assistance if fragments are in eyes.

d) INGESTION: n/a

7. PERSONAL PROTECTION INFORMATION

Respiratory Protection: wear dust masks if dust is created

Ventilation: local ventilation recommended if dust is created

Protective gloves: recommended

Eye protection: recommended

Other equipment: adequate covering to protect from sharp edges. Other equipment as customer's policies dictate.

8. STORAGE, HANDLING AND USE PROCEDURES

a) Stacking height of pallets max. 2,5m

b) Avoid rough handling to avert abrading or crushing the articles.

c) Minimize dust.

d) Watch footing if articles fall onto walking surfaces.

e) Protect against sharp, broken edges.

f) Waste disposal method: landfill in accordance with local, state and federal regulation. Be guided by extraneous matter to which these articles may have been exposed in the user's process.

9. OTHER PRECAUTIONS

As sold these articles are solid, inert and non-hazardous. If Customers processing introduces hazardous (toxic), flammable or explosive materials to the articles, be guided by their nature.