

# BASF Catalyst O4-85

## Honeycomb Catalysts for DeNO<sub>x</sub> by SCR

A part of the range of geometries available in BASF's standard honeycomb is indicated in the table below. The V<sub>2</sub>O<sub>5</sub> concentration, also a variable, is tailored to the actual flue gas composition and performance requirements for each application.

Nomenclature is explained by the following example:

### BASF O4-85 Type 899 / G / 060

- Type 899 specifies the pitch, according to the geometric surface area
- G designates non-coal-fired applications (for coal-fired, would show "K")
- 060 indicates the catalyst activity

### Honeycomb Dimensions for BASF Catalyst O4-85 Series

Geometric Surface (m <sup>2</sup> /m <sup>3</sup> )	Cell Array	Cells per Square Inch (cpsi)	Nominal Pitch (mm)	Size of Openings (mm)	Open Area (%)	Face Dimensions (mm)	Wall Thickness (mm)
455	20 x 20	11.5	7.4	6.40	72.8	150 x 150	1.00
475	21 x 21	12.7	7.0	6.06	72.0	150 x 150	1.00
493	22 x 22	13.9	6.7	5.73	70.6	150 x 150	1.00
570	25 x 25	17.9	5.9	5.16	74.0	150 x 150	0.75
686	30 x 30	25.8	4.9	4.29	73.6	150 x 150	0.65
801	35 x 35	35.1	4.2	3.68	73.7	150 x 150	0.55
899	40 x 40	45.9	3.7	3.16	71.0	150 x 150	0.55
1142	50 x 50	71.7	3.0	2.57	73.3	150 x 150	0.40

**Note 1:** Pitch is calculated as opening size plus internal wall thickness.

**Note 2:** Wall thickness given above is for internal walls; external wall thickness is slightly greater.

**Note 3:** Additional, non-standard types (e.g. pitch sizes not shown in table above) are available or can be produced for special requirements.

## About Us

BASF's Catalysts division is the world's leading supplier of environmental and process catalysts. The group offers exceptional expertise in the development of technologies that protect the air we breathe, produce the fuels that power our world and ensure efficient production of a wide variety of chemicals, plastics and other products, including advanced battery materials. By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious and base metals, BASF's Catalysts division develops unique, proprietary solutions that drive customer success.

**BASF - We create chemistry**

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