



## HeraPur® Three-Way Catalysts

High efficiency for a cleaner tomorrow

### **Service and support**

For more than a decade, Heraeus has been a global player in the aftermarket as a supplier of three-way catalysts worldwide. Over the years, we have established close relationships with R&D and sales departments throughout the world. Our product range includes catalysts for motorcycles, automotive and special applications, e.g. racecars, speedboats or even forklifts. Also, we are the people to talk to if you are interested in catalysts for bi-fuel applications or for CNG and LPG.

Our long-term experience enables us to develop many different catalyst layouts for specific engines and displacements, taking into account catalyst shape and size.

### **Three-way catalysts – performance and solutions**

Heraeus catalysts have been field-tested for years and demonstrate a proven track record for many applications in Europe, Asia and the United States.

## Production capability

We develop catalysts with customised precious metal loadings in varying degrees of platinum, palladium, and rhodium.

Our advanced manufacturing equipment lets us coat standard ceramic and metallic honeycombs with straight channels as well as those with structured elements – even with double instead of single matrices. The cell structure density of the coatings ranges from 50 up to 1000 cpsi.

We are also familiar with catalysts with flanges for fixation or square catalysts for fixation inside exhaust manifolds.

## Research and development

At its R&D centre in Hanau, Germany, Heraeus develops the latest washcoat formulations and cutting-edge catalyst coatings for its clients all over the world.

Heraeus works closely with its partners to meet the requirements of its clients' applications and to satisfy their demands.

If required, we will provide catalyst formulations with broad lambda windows to ensure stable emissions during different workloads.

Typical three-way catalyst solutions

Inner dimensions (mm)	PGM loading (g/ft <sup>3</sup> )	PGM relation (Pt/Pd/Rh)	Remarks
105 mm x 120 mm – 500	10	0/7/1	metal honeycomb, retrofit
105 mm x 90 mm – 200	10	0/7/1	metal honeycomb, retrofit
3.03" x 5.78" x 6" – 400	15	1/2/1	ceramic honeycomb, retrofit
3.03" x 5.78" x 6" – 400	25	1/0/1	ceramic honeycomb, retrofit
4" x 6" – 400	15	1/2/1	ceramic honeycomb, retrofit
97 mm x 114 mm – 400	8	0/7/1	ceramic honeycomb, retrofit
3.03" x 5.78" x 6" – 400	25	1/0/1	ceramic honeycomb, retrofit
4.66" x 6" – 400	30	5/0/1	ceramic honeycomb, retrofit
70 mm x 74.5 mm – 1000	22	1/0/1	metal honeycomb, retrofit
105 mm x 74.5 mm – 300	33	1/2/1	metal honeycomb, boat application
60.5 mm x 120 mm – 200	75	4/20/3	metal honeycomb
140.5 mm x 120 mm – 200	70	1/13/1	metal honeycomb
3.03" x 5.78" x 6" – 400	15	4/0/1	ceramic honeycomb, retrofit



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