

PURAVOC™ Catalysts

for the destruction of
Volatile Organic Compounds



Johnson Matthey
Catalysts

Johnson Matthey Catalysts is a world leader in catalysis science and technology and has a vast experience in both Platinum Group Metal (PGM) and Base Metal catalysts.

What we offer

The **PURAVOC™** range from Johnson Matthey Catalysts offers a PGM on alumina based fixed bed catalytic technology to remove a broad variety of volatile organic compounds (VOCs) in industrial processes.

Apart from our standard range of **PURAVOC** catalysts we are more than happy to work together with you on a tailor-made solution, for example with an alternative support, shape or composition.

The benefits of PURAVOC

Our **PURAVOC** catalysts provide excellent conversions at low temperatures. This means that, compared to traditional VOC thermal combustion, **PURAVOC** catalysts give you lower utilities consumption.

PURAVOC catalysts are stable in air at ambient temperature and they can be loaded directly into the reactor. They are supplied pre-activated so no *in situ* activation is required.

Application	Materials to be removed
Chemical processes	Acrylic acid, acrylonitrile, adipic acid, aromatics, caprolactam, CO, formaldehyde, halocarbons, hydrocarbons, maleic anhydride, methylmethacrylate, oxygenated hydrocarbons, phenol, phthalic anhydride, PTA, styrene
Coating processes	All organic off - gases
Fertilizer industry	NO _x , N ₂ O
Fruit preservation	Ethylene
Laminating	All organic off - gases e.g. formaldehyde
Metal processing	All organic off - gases e.g. paints, enamels, etc.
PET Solid State Polycondensation	Acetaldehyde, ethylene glycol, oligomers
Printing industry	All organic off - gases
Wood processing	All organic off - gases e.g. formaldehyde, methanol

The **PURAVOC** range can also be used in other suitable applications, please contact us to discuss.

Product (all alumina based)	Composition	Size (mm)	Shape
PURAVOC 73	0.3% Pt	3	tablets
PURAVOC 73A	0.3% Pt	4-8	spheres
PURAVOC 73B	0.3% Pt	2-4	spheres
PURAVOC 174	0.5% Pt	2.5	extrudates
PURAVOC 305	0.15% Pt / 0.15% Pd	2-4	spheres
PURAVOC 50B	0.5% Pd	2-4	spheres
PURAVOC 517	0.5% Rh	2.5	extrudates

*This is a small selection of the **PURAVOC** range.
Other compositions, supports and shapes are available, please contact us to discuss.*

PGM catalyst recovery

When the catalyst has come to the end of its active life, the spent material can be sent back to Johnson Matthey for recovery of the PGM values.

Further information and assistance on our refining service can be obtained by contacting us.

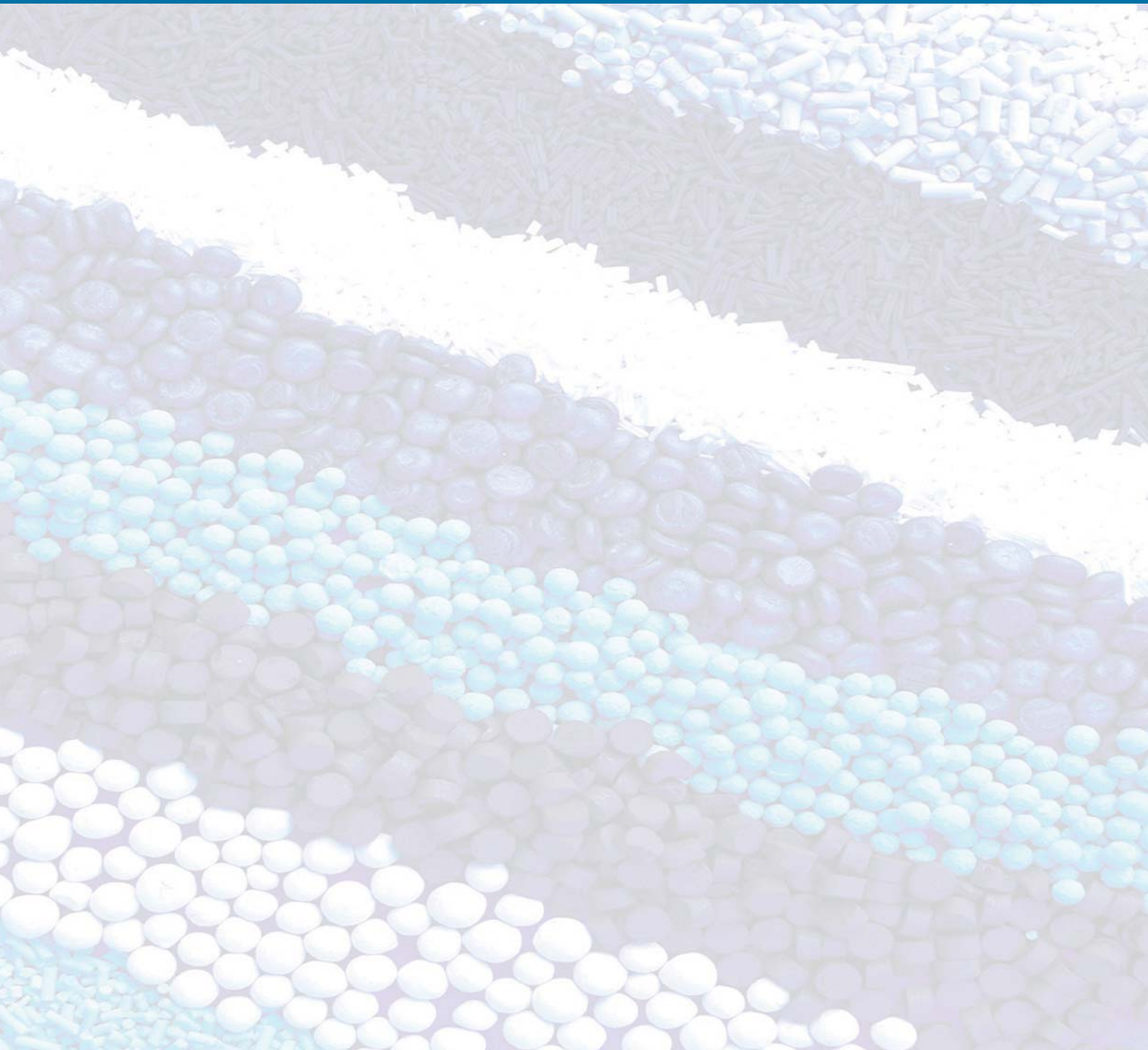
Not only will we provide you with the right product, we can provide in-house technical support and troubleshooting solutions for your plant.

Get in touch today!

Sustainability

Sustainable Development is, in essence, a natural extension of our Corporate Environmental Policies and Standards. The Johnson Matthey business is founded on the excellence of its people, products and technology. Our products reduce emissions, improve efficiencies and address pressing environmental and social concerns.





For further information on Johnson Matthey Catalysts, contact your local sales office or visit our website at www.jmcatalysts.com

PURAVOC is a trademark of the Johnson Matthey Group of companies.

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