



molecular

T E C H N I C A L   A R T I C L E



**An Introduction to Catalysts**

# Technical article

## An Introduction to Catalysts

---

Molecular Products Ltd produces a range of catalyst technologies. These include precious metal catalysts (Sofnocat®), and transition metal catalysts (Moleculite®) for oxidation of contaminants such as volatile organic compounds, carbon monoxide, ethylene oxide, ozone and hydrogen.

The catalysts oxidise contaminants to harmless carbon dioxide and water which are then emitted with the treated gas stream. This oxidation is achieved at much lower temperatures than would be required for combustion.

Catalytic technologies can theoretically be used indefinitely as the contaminants are not retained, but converted and released. In practice though, all catalysts become deactivated (poisoned) over time due to particulates and other low level contaminants within the treated gas stream, and therefore the life of the catalyst is dependent on the constituents of the treated gas.



Moleculite®



Sofnocat® 514



Sofnocat® 423

---

### Molecular Products Ltd

Mill End, Thaxted, Essex  
CM6 2LT, United Kingdom

**T** +44 (0)1371 830676  
**F** +44 (0)1371 830998

**E** [sales@molprod.com](mailto:sales@molprod.com)  
**W** [www.molecularproducts.com](http://www.molecularproducts.com)