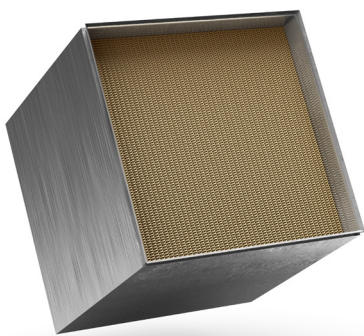


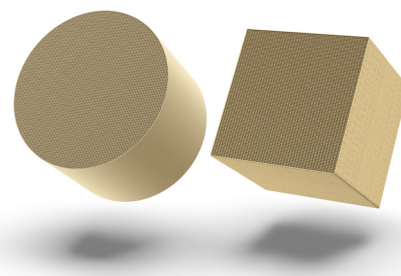
Data Center Emission Control Catalysts



Engineered for high availability, rapid response and emissions compliance

Data centers depend on highly reliable on-site power generation systems, primarily diesel and gas engines, to guarantee uninterrupted operations. As environmental regulations tighten and sustainability targets become more ambitious, effective exhaust aftertreatment solutions are becoming a key design element for both standby and prime power installations. Building on decades of experience in stationary emission control, Umicore's catalyst technologies are well suited to the specific operation requirements of data center's power supply. Full load availability, rapid start-up, and reliability are critical to delivering catalyst solutions for emissions in data centers.

Umicore's emission control catalysts are engineered to meet the rigorous demands of the data center industry and other applications requiring reliable, clean energy. With more than 40 years of innovation and thousands of customer installations, Umicore offers a single-source solution for your emission control catalyst needs.



Whether it is for:

- **DNX:** V/T/W SCR for high efficiency NO_x removal. Sulfur resistance.
- **DNU:** CuSCR for NO_x removal with the lowest possible volume.
- **DNO:** Oxidation of VOC & CO. Dual functionality: oxidation and SCR. Sulfur resistant.
- **DNA:** Ammonia Slip Catalyst for NH₃ removal.
- **DOC:** Diesel Oxidation Catalyst for VOC oxidation.
- **DOX:** Oxidation of VOC & CO. Pt or Pt/Pd based formulations.
- **cDPF:** Catalyzed Diesel Particulate Filter for particle removal.
- **DNZ:** DeN₂O for N₂O (laughing gas) removal.
- **MOC:** Methane Oxidation Catalyst.

Or catalyst combinations for:

- Backup & continuous power diesel and gas engines:
 - **DNX + DNO** for high NO_x/NH₃/VOC efficiency and endurance. High sulfur resistance.
 - **cDPF + DNU** for particles and NO_x removal with low catalyst volume.
- **DNU+DNA** for NO_x/NH₃/VOC for low-sulfur fuel applications.
- **Ammonia engines: DNX+DNA+DNZ** for combined NO_x, NH₃ and N₂O abatement.
- **Methanol engines: DNX+DNO** for NO_x, methanol, formaldehyde and HCN abatement.

The benefits of Umicore Catalysts

- More than four decades of proven catalyst expertise.
- First to introduce both **cDPF** and **MOC** technologies to the engine market.
- One-stop-shop approach with a single-vendor solution for emission compliance and performance guarantees.
- Wide range of substrates, PGM loadings, and catalyst designs for standard and customized solutions.
- Local manufacturing supported by Umicore's global production footprint.
- Global and local support through Umicore's extensive network around the world.



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With more than 40 years of experience in catalytic emission control, Umicore offers solutions for a wide range of applications and industries. Backed by over 10,000 industrial references for catalytic oxidation, SCR, catalytic particulate filtration, ammonia oxidation, and N₂O reduction catalysts, Umicore is the trusted partner for a cleaner and decarbonized world.

