



















Zinc

Metal Organic Framework

Metal-organic frameworks (MOFs) as hybrid porous polymeric structures have attracted worldwide attention due to their unprecedented opportunities in vast range of applications in diverse fields including chemistry, biological, and medicinal science as gas storage/separation, sensing, and drug delivery systems. Because of their high degree of chemical and structural tunability at a molecular level, Zinc MOFs have attracted significant attention as versatile materials for a plethora of applications such as gas storage/separation, sensors, catalysis and energy storage devices.

Quick Facts

Stock No.	:	NS6130-12-000891	
CAS	÷	59061-53-9	
Purity	:	99 %	
APS	:	30-40µm	
Molecular Forn	nula :	C8H10O4Zn	
Molecular Wei	ght :	227.585 g/mol	
Form	:	Powder	



Properties

- Large Surface Area
- High degree of crystallinity
- Low density
- Uniform channels
- **Porosity**
- High thermal stability
- Chemical tailor ability

Metal Organic Framework

Follow us:















Applications



Food

- Quality control (e.g. moisture control)
- Food storage (e.g. suppression of ripening agents)
- Shelf life management (e.g. triggered release of ripening agents)
- Delievery of agrochemicals (e.g. triggered release of fertilizers etc.)



Gas storage

- Compressed gas storage (e.g. natural gas, hydrogen, etc.)
- Toxic and reactive gas systems (e.g. via sub-atmospheric storage systems)
- Carbon capture and sequestration



Conductivity

- Electronics
- Batteries (e.g. electrodes, electrolytes, etc.)
- Optoelectronic devices (e.g. solar cells)
- **Additives**



Catalysis

- Catalytic support and immobilization
- Encapsulation of catalytic active species
- Unprecedented selectivity and activity



Sensoring and detection

- Gas/vapor and small molecule detection
- Luminescence (e.g. scintillation)
- Medical diagnostics
- **Explosive detection**



Gas Treatment

- Separation (e.g. hydrocarbons, CO2, O2, H2, NH3, H2S, toxics, etc.)
- Purification
- Impurity and odor removal
- Filtering (e.g. molecular sieves)



Textile upgrading

- **Additives**
- Personal protection
- Chemical, biological, radiological and nuclear (CBRN) defense



Gas and liquid adsorption

- Drug Delivery (e.g. slow release of target molecules)
- Water harvesting
- Removal of toxic and hazardous substances (e.g. chemical warfare agents)
- Heat transformation (e.g. adsorption heat pumps)
- Respiratory systems (e.g. gas masks)
- Water treatment (e.g. heavy metal removal)







ISO 9001:2015 **CERTIFIED COMPANY**

INTELLIGENT MATERIALS PVT LTD

Derabassi Punjab (140507) INDIA

+91 9779 550077, 9779238252

NANOSHEL UK LIMITED

Chapel House, Chapel St Cheshire, CW12 4AB United Kingdom

+44 (0) 74 105 488, +44 203 137 5187

NANOSHELLLC

3422 Old Capitol Suit 1305 Wilmington DE - 19808 United States

+1 646 470 4911















