

The world record in surface area

BASOLITE Metal Organic Frameworks



BASOLITE MOF Properties

	BASOLITE Properties	BET Surface Area	Sigma Aldrich #
BASOLITE A100 Aluminum terephthalate	Hydrophilic MOF Can be re-activated at 200°C	1100-1500 m ² /g	688738
BASOLITE C300 Copper benzene – 1,3,5-tricarboxylate	Hydrophilic MOF Can be re-activated at 200°C	1500-2100 m ² /g	688614
BASOLITE Z1200 2-Methylimidazole zinc	Organophilic ZIF (Zeolitic Imidazolate Frameworks) Can be re-activated at 100°C	1300-1800 m ² /g	691348

BASOLITE MOF Performance Comparisons

Current Technology	BASOLITE Performance Comparison
Zeolite	MOF have close to one order of magnitude higher surface area and no dead volume, high uptake capacity, low desorption energy and structural variety. Metal atoms are atomically dispersed for catalytic activity.
Silica	MOF have significantly higher surface areas and high uptake capacity.
Alumina	Hydrophilic MOF are available with more than one order of magnitude higher surface area, low desorption energy, reversibility and stability against water.
Active Carbon	An organophilic MOF (Z1200) is available with even higher surface area, can be reactivated and is stable at high temperatures. Custom tailored structures possible in the future.

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