SHAPED CARRIERS

Alumina shaped carriers

Sasol Chemicals

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Most modern, highly selective catalytic processes require materials with tailored porosity and well-defined surface properties, therefore, the choice of the most suitable support material is the first crucial step in the preparation of advanced heterogeneous catalysts.

The individual properties of Sasol Alumina powders, such as level of purity, porosity, surface area and dopants are preserved during the shaping processes. Sasol Alumina shaped carriers are available as extrudates, spheres and tablets in various sizes and shapes. In addition individual parameters can be modified at customer's request.

Standard qualities of spheres

	Unit	Spheres 1.0 / 160	Spheres 1.8 / 210	Spheres 2.5 / 210
Diameter / distribution	[mm]	1.0 / monomodal	1.8 / monomodal	2.5 / monomodal
Crush strength	[N]	min. 45	min. 50	min. 65
Packed bulk density	[g/l]	740 – 820	540 – 580	500 – 600
Surface area	[m²/g]	150 – 170	200 – 220	200 – 220
Pore volume	[ml/g]	min. 0.45	min. 0.75	min. 0.75

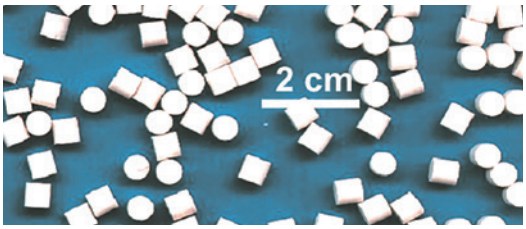
Additional qualities are available on request

Standard qualities of extrudates

	Unit	Extrudates	Trilobes	Hollow extrudates
Al_2O_3	[%]	min. 95	min. 97	min. 97
Outer diameter	[mm]	1.5	1. 5	4. 5
Inner diameter	[mm]	–	–	1. 5
Mean length	[mm]	2 – 7	2 – 7	6 –11
Crush strength	[N]	min. 70	min. 70	min. 25
Loose bulk density	[g/l]	500 – 800	500 – 800	400 – 500
Surface area	[m²/g]	140 – 190	150 – 200	180 – 210
Pore volume	[ml/g]	min. 0.4	min. 0.4	min. 0.7

Additional qualities are available on request

Standard qualities of tablets



	Unit	Tablets 5 x 5	Tablets 5 x 5 x 2.2
Al_2O_3	[%]	min. 90	min. 90
Outer diameter	[mm]	5.0	5.0
Inner diameter	[mm]	–	2.2
Length	[mm]	5.0	5.0
Crush strength	[N]	min. 100	min. 20
Loose bulk density	[g/l]	650 – 850	500 – 700
Surface area	[m²/g]	min. 160	min. 160
Pore volume	[ml/g]	min. 0.4	min. 0.4

Additional qualities are available on request

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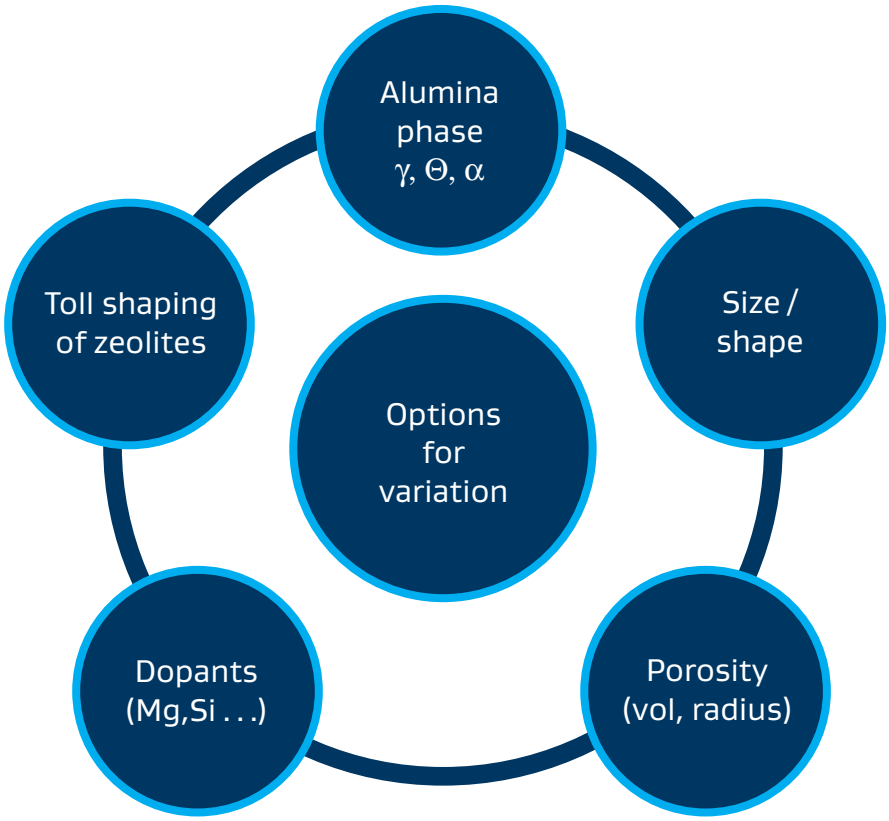

At your service

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Advanced Materials

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Source reference
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