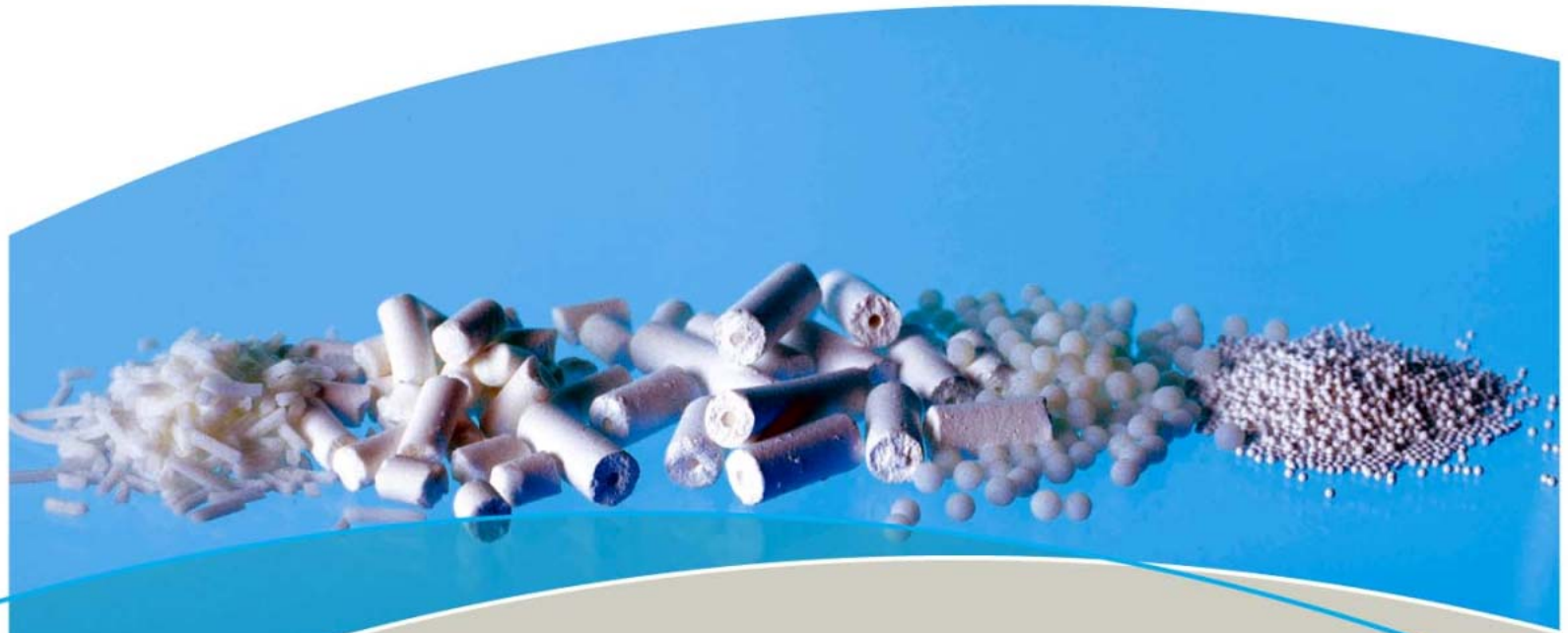


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## ***Spheres and Extrudates***

*Shaped Carriers produced from High Purity Aluminas, Silica  
Aluminas and Hydrotalcites*

*Sasol – Inorganics Division*

**Sasol Aluminas**  
**Key Property: High Purity**

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**$SiO_2$**

**typical**  
**120 ppm**

**$Fe_2O_3$**

**100 ppm**

**CaO**

**50 ppm**

**MgO**

**50 ppm**

**$Na_2O$**

**20 ppm**

**$K_2O$**

**20 ppm**

**Heavy Metals (total)**

**100 ppm**

**High Purity**

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# Spheres



**Pore Volume**  
0.5 ml/g – 1.4 ml/g

**Diameter**  
0.6 mm – 3.0 mm



**Pore Radius**  
30 Å – 2500 Å

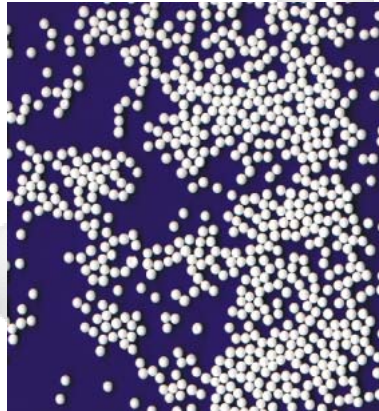
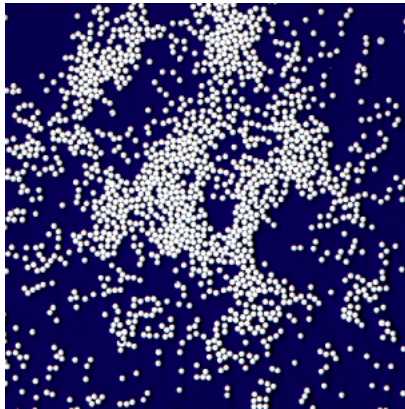
**Pore Radii Distribution**  
monomodal - multimodal

**Crystal Phase**  
gamma, delta, theta,  
alpha-Al<sub>2</sub>O<sub>3</sub>

**Dopants**  
Various dopants can be added

# Alumina Spheres Standard Products

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	<i>Unit</i>	<i>Spheres 1.0/160</i>	<i>Spheres 1.8/210</i>	<i>Spheres 2.5/210</i>
<i>Diameter</i>	<i>[mm]</i>	1.0	1.8	2.5
<i>Crush Strength</i>	<i>[N]</i>	min. 45	min. 50	min. 65
<i>Packed Bulk Density</i>	<i>[g/l]</i>	740-820	540-580	500-600
<i>Surface Area</i>	<i>[m<sup>2</sup>/g]</i>	150-170	200-220	200-220
<i>Pore Volume</i>	<i>[ml/g]</i>	min. 0.45	min. 0.75	min. 0.75

# Extrudates Standard Products

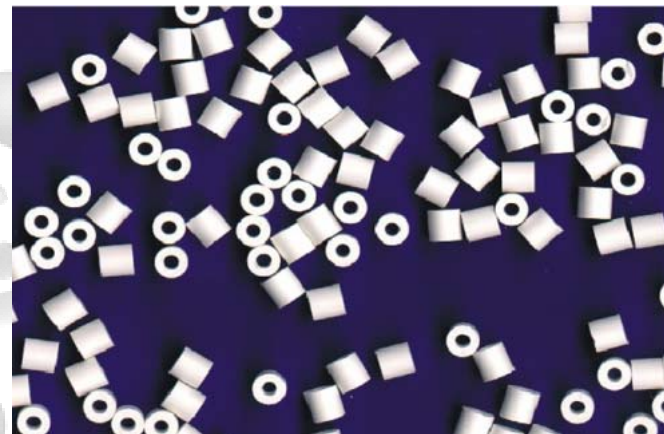
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	Unit	Extrudates	Extrudates	Hollow Extrudates
$Al_2O_3$	[%]	min. 95	min. 96	min. 97
Outer Diameter	[mm]	1.5	1.8	4.5
Inner Diameter	[mm]	-	-	1.5
Length	[mm]	2 - 7	2 - 7	6-11
Crush Strength	[N]	min. 70	min. 35	min. 25
Loose Bulk Density	[g/l]	500-800	350-600	400-500
Surface Area	[m <sup>2</sup> /g]	140 - 170	220-270	180-210
Pore Volume	[ml/g]	min. 0.4	min. 0.9	min. 0.7

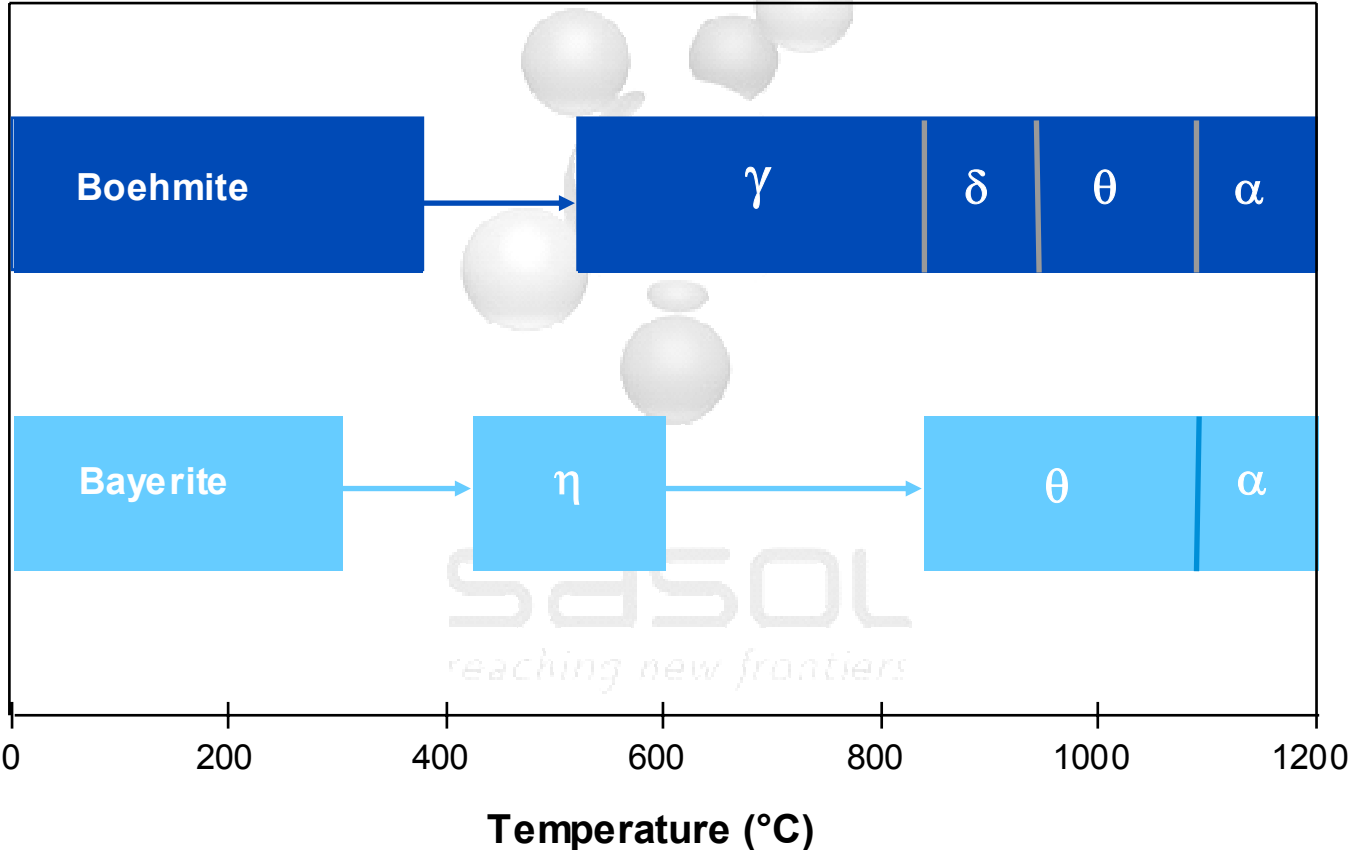
# Tablets

## Standard Products



	Unit	Tablets 5x5	Tablets 5x5x2.2
$Al_2O_3$	[%]	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. 180	min. 20
Loose Bulk Density	[g/l]	650 - 800	450 - 650
Surface Area	[m <sup>2</sup> /g]	min. 210	min. 210
Pore Volume	[ml/g]	min. 0.5	min. 0.5

# Dehydration Sequences



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*All information represented here is believed to be reliable, however, no guarantee or warranty is made as to results obtained when the product is used or to freedom from patent restrictions.*

*For any further information, please contact:*

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*Sasol Germany GmbH  
Inorganics Division  
Anckelmannsplatz 1  
D-20537 Hamburg, Germany*

*Tel.: +49-40 63684-1245*

*Fax.: +49-40 63684-3626*

*URL: [www.sasolalumina.com](http://www.sasolalumina.com)*

*Email: [inorganic@de.sasol.com](mailto:inorganic@de.sasol.com)*