



ASM Catalysts, LLC
 18310 Old Trace Drive
 Baton Rouge, LA 70817
 USA

Phone 1 (225) 752-4276
 Fax 1 (225) 751-9025
 E-Mail info@asm-catalysts.com

ESM Inert Support Balls Products Data Sheet

	ESM Ceramic Support Balls	ESM Tabular Alumina Balls
<u>Chemical Composition</u>		
Al ₂ O ₃	24.1 wt%	99.67 wt%
SiO ₂	67.4 wt%	0.01 wt%
Fe ₂ O ₃	0.8 wt%	
TiO ₂	1.2 wt%	
CaO	0.4 wt%	
MgO	0.5 wt%	
Na ₂ O	1.2 wt%	0.20 wt%
K ₂ O	3.3 wt%	
Al ₂ O ₃ +SiO ₂	91.5 wt%	
Leachable Fe ₂ O ₃	0.04 wt%	<0.01 wt%
<u>Physical Analysis</u>		
Packed Bulk Density	1362 kg/m ³	2160 kg/m ³
Mohs Hardness	7	>8
Water Adsorption	0.93%	<0.2%
Operating Temperature	980°C max.	1600°C max.
Particle Density	2.3 g/cc	3.7 g/cc
<u>Size</u>		
	<u>Crushing Strength</u>	<u>Crushing Strength</u>
2 inch (50 mm nominal)	> 960 kg _f	> 3500 kg _f
1½ inch (38 mm nominal)	> 874 kg _f	> 2340 kg _f
1 inch (25 mm nominal)	> 635 kg _f	> 1640 kg _f
¾ inch (19 mm nominal)	> 430 kg _f	> 1260 kg _f
½ inch (13 mm nominal)	> 170 kg _f	> 860 kg _f
⅜ inch (9 mm nominal)	> 110 kg _f	> 530 kg _f
¼ inch (6 mm nominal)	> 55 kg _f	> 460 kg _f
⅛ inch (3 mm nominal)	> 40 kg _f	> 198 kg _f

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