

DUROCEL® 222

CERAMIC BED SUPPORT STANDARD GRADE INERT SPHERICAL

Typical Properties

Chemical	Al ₂ O ₃ + SiO ₂	90.00% (min)
	Al ₂ O ₃	25.0 – 35.0%
	SiO ₂	60.0 – 70.0%
	Fe ₂ O ₃ + TiO ₂	< 3.0%
	Leachable Fe	< 0.05%
	CaO + MgO	< 2.0%
	Na ₂ O + K ₂ O	< 5.0%
Physical	Abrasion (Attrition) Loss	< 0.5%
	Apparent porosity	< 1.0%
	Water absorption	< 0.4%
	Max. Operating Temp. – °F (°C)	2,200 (1,200)

Specifications by Size

Size (nominal) – inches (mm)	1/8 (3)	1/4 (6)	3/8 (9.5)	1/2 (13)	3/4 (19)	1.0 (25)	1.5 (37)
Bulk Density – lbs/ft ³ (kg/m ³)	88 (1,410)	87.5 (1,402)	87 (1,394)	87 (1,394)	86 (1,378)	85 (1,362)	85 (1,362)
Crush Strength (Point Load) lbs (kg). Min.	80 (36)	150 (68)	250 (113)	640 (290)	1,170 (530)	1,760 (800)	2,200 (1,000)
Mohs Hardness	7 – 8	7 – 8	7 – 8	7 – 8	7 – 8	7 – 8	7 – 8

Availability

Shipping Point	Various – determined by end destination
Packaging	25 kg (55.1 lb) sacks, 1 MT supersacks, steel drums available

Application

Used as catalyst and adsorbent bed support in refining, petrochemical and gas processing applications.

Disclaimer

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

Evonik Operations GmbH

Business Line Catalysts
 Rodenbacher Chaussee 4
 63457 Hanau
 Germany
 PHONE +49 6181 59-13399
 catalysts@evonik.com
 www.evonik.com/catalysts

