

# HY-25

## Inert Ceramic Support Balls



### Description

HY-25 ceramic support balls are commonly used in catalyst processes with adsorbent media and has high impact resistance and crush strength and can withstand thermal shock, offering high survivability.

### Specifications

Inert Ceramic Support Balls HY-25								
Chemical Composition (Typical Values)								
Element	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub> + Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO + TiO <sub>2</sub>	K <sub>2</sub> O + Na <sub>2</sub> O + CaO	Leachable Iron	
wt%	66 -73	22 -26	>92	<1.5	<1.0	<4.5	<0.1	
Bead Size Properties								
Mesh Size*	1/8 Inch	1/4 Inch	3/8 Inch	1/2 Inch	3/4 Inch	1 Inch	1.5 Inch	2 Inch
Bead Diameter	3 mm	6 mm	10 mm	13 mm	19 mm	25 mm	38 mm	50 mm
Size Tolerances (allowable deviation)	±1.0 mm			±1.5 mm			±2.0 mm	
Crush Strength kg (lbm*ft/s <sup>2</sup> )	>35 (77)	>70 (144)	≥150 (330)	>273 (600)	>600 (1,320)	>1,000 (2,200)	>1,182 (2600)	>1,362 (3,000)
*(also available in 1.5mm, 16mm, 30mm, and 75mm Mesh Sizes)								
Physical Properties								
Property		All Mesh Sizes						
Free Volume	%	40						
H <sub>2</sub> O Adsorption	wt%	<3						
Hardness	Mohs	>7						
Particle Density	g/mL (lb/ft <sup>3</sup> )	2.3-2.4 (143.5-149.8)						
Bulk Density	kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	1,400 (87.4)						
Max Operating Temperature	-	980°C (1,796°F)						
Acid Resistance	%	99.6						
Alkali Resistance	%	85						
Packaging	Super Sack options available		25kg (55.1lb) / Bag			other sizes possible		

### Industries Used

oil refining  
gas processing

natural gas dehydration  
biofuel production

petroleum gas  
petrochemical

### Storage

Ceramic support balls should not be left exposed to open air for prolonged periods and should be stored in dry conditions with air-proof packaging.

### Connect with us...

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