



## **TK-CB07** **CERAMIC BALL**

**TeknoKatalis CB07** – Catalyst Bed Support Media or Catalyst Bed Support Balls. Inert ceramic ball is widely used in many fields, such as petroleum, chemical engineering, fertilizer, environmental industry, etc. Being the covering and supporting material and tower packing for catalyst in the reactor, the ceramic ball has features of high intensity, high chemical stability and thermal stability.

### **Chemical Composition**

Al <sub>2</sub> O <sub>3</sub> +SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	K <sub>2</sub> O+Na <sub>2</sub> O
>90%	18-26%	68-77%	<0.5%	<1.0%	<1.0%	<1.0%	<4%

### **Physical Properties**

Water absorption, %	< 0.5
Leachable iron (soluble), %	<=0.1
Bulk density, g/cm <sup>3</sup>	1.35 – 1.45
Specific gravity, g/cm <sup>3</sup>	2.3 – 2.45
Apparent porosity, %	2 ~ 6
Operation temp (max), °C	1.000
Moh's hardness, scale	> 7
Acid resistance, %	> 99.6
Alkali resistance, %	> 85
Spalling resistance, °C	427
Autoclave survival rate, %	>=99.0

### ***Size and Value***

---

<b>Crush strength</b>	<b>Kg / particle</b>	<b>KN / particle</b>
1/8" (3 mm)	> 28	> 0.28
1/4" (6 mm)	> 55	> 0.54
3/8" (9 mm)	> 110	> 1.08
1/2" (13 mm)	> 170	> 1.67
3/4" (19 mm)	> 430	> 4.21
1" (25 mm)	> 634	> 6.22
1.5" (38 mm)	> 910	> 8.92
2" (50 mm)	> 1000	< 9.8

### ***Packing***

---

- ✓ Net 150 L steel drums – 210 kgs with plastic lined 4 or 3 drums per pallet and shrink wrapped or 1.000 kgs super sacks with pallet.

