Product Data Sheet **Type CB**

Updated 28/07/2026

CHEMCO

Product name	Ceramic Beads (Shots) for Blast Cleaning & Micro blasting
Product type	CB
Features	- Reduced beads consumption (30- 40 times) against glass blasting media - Lower metal surface roughness - Less operating pressure and reduced abrasive velocity needed than glass blasting media Thus have far less abrasive breakdown and dust generation, results in cleaner working environment and better operator visibility - White color, highly spherical and smooth surface beads - Strong mechanical resistance and high toughness, but gentle with equipment and tools preserving work parts - Chemically inert, no metallic contamination for treated parts - Low dust production
Applications	CB beads can be used in these applications, just name a few: - Cleaning and surface preparation (deburring, etching, paint removal, cosmetic finishing, fine machining and engraving …) of molds, castings and delicate items - Effectively used in air or wet pressure blasting process and in wheel turbine machines
Technical data	
Specific density	3.6 – 3.95 g/cm^3
Hardness *	688 HV (CB60)
Color	White (glossy sheen)

*typical values

Product code	Size range (ø,mm)*	Product code	Size range (ø,mm)*
CB 505	0.01 – 0.03	CB 100	0.125 – 0.18
CB 400	0.03 – 0.063	CB 80	0.18 – 0.25
CB 205	0 – 0.063	CB 60 Plus	0.125 – 0.25
CB 170	0.045 – 0.09	CB 40	0.25 – 0.425
CB 125	0 – 0.125	CB 30	0.425 – 0.60
CB 120	0.063 – 0.125	CB 20	0.60 – 0.850

*other sizes can be customized

Manufacturer/ Supplier	Chemco Advance Material (Suzhou) Co., Ltd Manufacturing plant: Guangfu Industrial Park, Fengshan Road, Guangfu Town, Suzhou, 215159, CHINA Phone: +86 186 1680 9761 Email: info@chemcobeads.com Website: www.chemcobeads.com

Material Safety Data **Type CB**

In compliance with REACH regulation EC No.1907/2006 and US GHS

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Identification	REACH registration numbers: Exempted from registration under REACH regulation EC No. 1907/2006			
Composition	Components	Weight*	CAS No.	EC No.
	Zirconium dioxide ZrO_2	60- 70 %	1314-23-4	215-227-2
	Silicon glass SiO_2	20- 30 %	60676-86-0	262-373-8
	Aluminum oxide Al_2O_3	< 10%	1344-28-1	215-691-6
	Additional information: The ingredients of the silica-alumina vitreous phase cannot be dissociated by the product application in surface treatment by impact and it is free from crystalline silica. Traces of radioactive elements of natural origin (Series U238 & Th232, U + Th < 0.05 %) *typical values			
Hazards identification	CLP regulation EC 1272/2008: Not classified as a hazardous product OSHA GHS (US): Not classified as a hazardous product Health rating: 0 – None Flammability rating: 0 – None Reactivity rating: 0 – None Possible irritation through abrasive friction. Risk of slipping if the product (beads) is spread out on the floor. As such, the product should not cause an inhalation problem but its utilization can create dust.			
First aid measures	Eyes: may be abrasive through friction, treat as particle in eye.			
Firefighting measures	This product is not combustible or explosive. Does not present any particular risk in the event of fire. Does not require any particular methods.			
Accidental release measures	Isolate the area and sweep the floor in order to collect the beads to avoid the slipping by rolling. Wear eye protectors and dust mask.			
Handling and storage	In case of operations, which generate dust, wear dust mask. Wear eye protectors. Heavy material, respect the security rules in case of stocking. Use safety shoes for handling.			
Physical / Chemical Properties	Appearance and odor: odorless white beads Median diameter: < 1.0mm Specific temperatures: over 1600℃ Bulk density: 2.3 g/cm^3 Mess density: 3.85 g/ cm^3 Solubility in water: insoluble			
Disposal consideration	Whatever cannot be saved for recovery or recycling should be managed in an appropriate waste disposal facility. Dispose of packaging and unused contents in accordance with governmental and local requirements.			
Transport information	Not restricted			