



Product Data Sheet: **REDispheres™ C**

REDispheres™ C are fine, off-white colored, glass/ceramic, hollow cenosphere powders easily mixed with cement and additives in dry state or readily suspended in a cement slurry. The low density and high strength ratios along with very good batching compatibility allows for a high efficiency and low mixing costs, ultimately providing lower density whilst maintaining strength in concrete matrices.

REDispheres™ C lower the risk of unexpected fracture formations, contamination and gas channeling in cemented wells providing longer cement life and well integrity.

Applications: Oil well cementing; low density filler for mortars/concrete products/thermos-plastics and more.

Packing: Bulk super-sack, bagged in boxes; other packaging options are available on request.

Storage: Dry storage. Avoid contact with moisture. Maintain seal.

Safety: **REDispheres™ C** is an amorphous material. Material Safety Data Sheet available on request.

Environmental: Lower your Global Warming Potential (1 ton cement replaced = 1 ton CO₂ removed.) Complies with ISO 14001:2004, OHSAS 18001:2007, and R2:2013. EPD forthcoming.

Chemical Properties		Physical Properties	
SiO ₂	52-62%	Specific Gravity	0.70 – 0.85 g/cm ³
Al ₂ O ₃	30-36%	Bulk Density	18 – 25 lbs/ft ³
CaO	0.1-0.5%	Hardness (Moh)	5 - 6
K ₂ O	1.2-3.2%	Comp. Strength	1,500 – 4,000 psi
Fe ₂ O ₃	1.0-3.0%	Packing Factor	60-65%
TiO ₂	0.8-1.3%	Wall Thickness	5-10% shell diam
MgO	1.0-2.5%	Melting Point	1200-1300 C
Na ₂ O	0.2-0.6%	Moisture	0.5% max
CO ₂	70%	Sinkers	1.5% max
Nitrogen	30%	LOI	2% max

These values describe a mean range and do not represent a specification.

**C80; C150; C300 & C500 ARE STANDARD SIZES (NUMERIC IS 95% PASSING IN MICRONS)
OTHER PARTICLE SIZE DISTRUBUTIONS ARE AVAILABLE UPON REQUEST.**

Serving Refractory, Mineral Processing and Construction Materials Industries

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