

TECHNICAL DATA SHEET 857

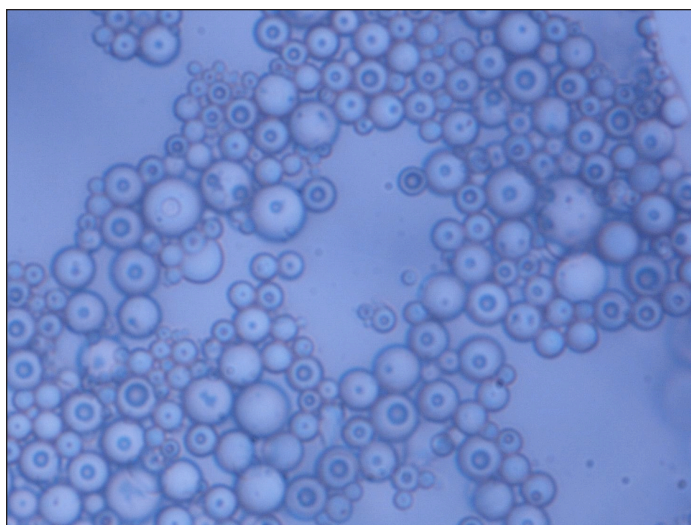
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Glass Beads

Catalog Numbers: 07666, 07668, 15926

DESCRIPTION

Our borosilicate and soda-lime glass beads have been sieved to the noted diameter ranges, and they are provided in powder form.



Cat. #07666: 3-10µm Borosilicate Glass Beads

CHARACTERISTICS

Borosilicate Glass Soda-Lime Glass
(Cat. #07666) (Cat. #07688 & 15926)

Composition (%)

SiO ₂	52.5	72.5
Na ₂ O	0.3	13.7
CaO	22.5	9.8
MgO	1.2	3.3
Al ₂ O ₃	14.5	0.4
FeO / Fe ₂ O ₃	0.2	0.2
K ₂ O	0.2	0.1
B ₂ O ₃	8.6	0.0

Physical & Mechanical Properties

Specific Gravity, g/cm ³	2.54	2.5
Refractive Index, nD	1.55	1.51
Young's Modulus, 10 ⁶ psi	10.5	10.0
Rigidity Modulus, 10 ⁶ psi	n/a	4.3
Hardness, moh	6.5	6.0
Coefficient of Friction	1.0	0.9-1.0

Borosilicate Glass Soda-Lime Glass
(Cat. #07666) (Cat. #07688 & 15926)

Thermal & Electrical Properties

Softening Point, °C	846	704
Expansion Coefficient, in/in/°C $\times 10^{-7}$	28	90
Thermal Conductivity, cal/(sec)(cm ²)(°C/cm) at 500°C	n/a	0.0036
Dielectric Constant, 22°C, 10 ⁶ Hz	5.8	6.9
Volume Resistivity, 25°C, ohm-cm	10 ¹³ -10 ¹⁶	6.5 $\times 10^{12}$

STORAGE

Store at room temperature.

This product is for research use only and is not intended for use in humans or for *in vitro* diagnostic use.

ORDERING INFORMATION

Cat. #	Description	Size
07666-1	Glass Beads (3-10µm)	1g
07668-1	Glass Beads (10-30µm)	1g
15926-100	Glass Beads (50-100µm)	100g

TO ORDER

In The U.S. Call: 1(800) 523-2575 • (215) 343-6484
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