

Product Data Sheet



*The German
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SiLibeads AIR Hollow Glass Beads

First created on: 2017-05-08
Next inspection on: 2018-12-31

Updated on: 2018-07-18
Printed on: 2018-07-18

Version: V8/2018

Product: SiLibeads AIR Hollow Glass Beads

Material: Hollow glass microspheres made of borosilicate glass

Application:

- Filling material for the modification of the physical properties of thermoplastics and duroplastics.
- Filling material for the reduction of weight in composite materials as lightweight concretes or cements.
- As a thermal insulator in thermal insulating coatings (also for the modification of the physical properties of the coatings).
- Effect material for decorative effects in wall paints.

Technical Data:

Color and shape: colourless rigid spheres, white powder

Rate of floatage: 90 - 95 %

Softening point: 625°C

pH-value: 8.0 - 9.5

Standard Sizes:

Article	(True) density	Bulk density	particle sizes D10 / D50 / D90	Crush Strength
8015	0.15 g*cm ⁻³	0.10 g*cm ⁻³	30 µm / 70 µm / 110 µm	2 MPa
8020	0.20 g*cm ⁻³	0.12 g*cm ⁻³	32 µm / 68 µm / 106 µm	4 MPa
8025	0.25 g*cm ⁻³	0.15 g*cm ⁻³	30 µm / 65 µm / 100 µm	5 MPa
8032	0.32 g*cm ⁻³	0.19 g*cm ⁻³	30 µm / 56 µm / 74 µm	14 MPa
8038	0.38 g*cm ⁻³	0.21 g*cm ⁻³	20 µm / 50 µm / 80 µm	36 MPa
8040	0.40 g*cm ⁻³	0.23 g*cm ⁻³	20 µm / 45 µm / 70 µm	28 MPa
8046	0.46 g*cm ⁻³	0.26 g*cm ⁻³	22 µm / 45 µm / 65 µm	41 MPa
8060	0.60 g*cm ⁻³	0.35 g*cm ⁻³	18 µm / 40 µm / 60 µm	55 MPa
8070	0.70 g*cm ⁻³	0.42 g*cm ⁻³	15 µm / 30 µm / 40 µm	124 MPa
8082	0.60 g*cm ⁻³	0.35 g*cm ⁻³	18 µm / 40 µm / 60 µm	82 MPa

Assessment according to Food Legislation:

The Glass beads comply with the requirements § 31 of the German Food and Feed Code (LFGB) and of the European Food Regulation (EC) No. 1935/2004.

Conformity to Cosmetic Regulation:

The Glass beads are in accordance with permitted limits of regulation (EC) No. 1223/2009.

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Chemical Analysis:

Name	Method	Weight (Reference values)	CAS-No.	EINECS
Silicon dioxide SiO ₂	DIN 51001	72.50 %	7631-86-9	231-545-4
Boric oxide B ₂ O ₃	DIN 51086-1	11.50 %	1303-86-2	215-125-8
Calcium oxide CaO	DIN 51001	10.00 %	1305-78-8	215-138-9
Sodium oxide Na ₂ O	DIN 51001	5.00 %	1313-59-3	215-208-9
further		1.00 %		

The heavy metal content of the Glass beads keeps the permitted limits of EU directive 2011/65/EC (RoHS).

Lead < 1000 ppm

Cadmium < 100 ppm

Chrome VI < 1000 ppm

Mercury < 1000 ppm

Additional Information:

Storage indication: Store in a dry manner in closed (original) container by room temperature.

Disposal: Please consult national laws and local regulations in force for disposal or landfill.

Safety advice: High risk of slipping due to spillage of product.

Product information: Safety Data Sheet SiLibeads Hollow Glass Beads

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All data are reference values – subject to change without prior notice