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**Manufacturer / Supplier:**

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Company Sigmund Lindner GmbH has established a Quality Management System according DIN EN ISO 9001 since 1997.

**Responsible:**

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**Description:**

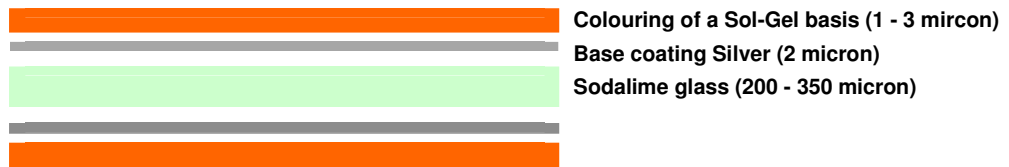
Glass Glitters, -Flakes, -Nuggets and Glass Beads made of Sodalime-glass, transparent/without colouring or with surface colouring

**Application of product:** Effect material for decoration

**Construction of the Article number:**

Material	Size		Colour	Colouring option
10	80	—	288	LS

**Construction of a Glass Glitter particle according to colouring option LS:**



**Chemical composition :**

Weight Sodalime glass ≥ 98 %		(transparent/without colouring 100 %)		
Main components	Weight	CAS-No.	EINECS	CI-No.
Silicon dioxide SiO <sub>2</sub>	68,0 - 73,0 %	7631-86-9	231-545-4	
Sodium oxide Na <sub>2</sub> O	7,5 - 13,0 %	1313-59-3	215-208-9	
Calcium oxide CaO	4,0 - 9,5 %	1305-78-8	215-138-9	
Potassium oxide K <sub>2</sub> O	0,2 - 6,5 %	12136-45-7	235-227-6	
Magnesium oxide MgO	0,2 - 4,3 %	1309-48-4	215-171-9	
Zinc oxide ZnO	0,0 - 4,3 %	1314-13-2	215-222-5	
Aluminium trioxide Al <sub>2</sub> O <sub>3</sub>	0,5 - 3,9 %	1344-28-1	215-691-6	
Boroxid B <sub>2</sub> O <sub>3</sub>	0,0 - 4,4 %	1303-86-2	215-125-8	
further				

Weight Colouring ≤ 2 %		(transparent/without colouring 0 %)		
Base Coating		CAS-No.	EINECS	CI-No.
Aluminium		7429-90-5	231-072-3	77000
Silver		7440-62-2	231-171-1	keine

Surface Colouring	CAS-No.	EINECS	CI-No.
Pigment Yellow 83	5567-15-7	226-939-8	21108
Pigment Blue 15	147-14-8	205-685-1	74160
Pigment Black 7	1333-86-4	215-609-9	77266
Pigment Violet 23	6358-30-1	228-767-9	51319
Pigment Red 208	31778-10-6	250-800-0	12514
Pigment Red 146	5280-68-2	226-103-2	12485
Pigment White 6	13463-67-7	236-675-5	77891
Pigment Orange 34	15793-73-4	239-898-6	21115
Pigment Brown 25	6992-11-6	230-258-1	12510
Pigment Green 7	1328-53-6	215-524-7	74260
Solvent yellow 83:1	61116-27-6	none	none

- Colouring options:**
- W Surface coloured (not resistant)
  - WS Base Coating Silver + surface coloured (not resistant)
  - L Surface coloured (solvent resistant coating)
  - LS Base Coating Silver + surface coloured (solvent resistant coating)
  - LA Base Coating Aluminium + surface coloured (solvent resistant coating)

**available Sizes:**

Deco Beads			
Article	Diameter/tolerance	Spec. Weight	Bulk density
5215-xxx-x	0,15 – 0,25 mm	2,50 kg/dm <sup>3</sup>	1,52 kg/dm <sup>3</sup>
5216-xxx-x	0,20 – 0,30 mm	2,50 kg/dm <sup>3</sup>	1,51 kg/dm <sup>3</sup>
5220-xxx-x	0,20 - 0,40 mm	2,50 kg/dm <sup>3</sup>	1,51 kg/dm <sup>3</sup>
5223-xxx-x	0,30 - 0,40 mm	2,50 kg/dm <sup>3</sup>	1,51 kg/dm <sup>3</sup>
4501-xxx-x	0,25 – 0,50 mm	2,50 kg/dm <sup>3</sup>	1,51 kg/dm <sup>3</sup>
45015-xxx-x	0,40 – 0,60 mm	2,50 kg/dm <sup>3</sup>	1,50 kg/dm <sup>3</sup>
4502-xxx-x	0,50 – 0,75 mm	2,50 kg/dm <sup>3</sup>	1,49 kg/dm <sup>3</sup>
4503-xxx-x	0,75 – 1,00 mm	2,50 kg/dm <sup>3</sup>	1,48 kg/dm <sup>3</sup>
4504-xxx-x	1,00 – 1,30 mm	2,50 kg/dm <sup>3</sup>	1,47 kg/dm <sup>3</sup>
4505-xxx-x	1,25 – 1,65 mm	2,50 kg/dm <sup>3</sup>	1,47 kg/dm <sup>3</sup>
4506-xxx-x	1,55 – 1,85 mm	2,50 kg/dm <sup>3</sup>	1,47 kg/dm <sup>3</sup>
4507-xxx-x	1,70 – 2,10 mm	2,50 kg/dm <sup>3</sup>	1,47 kg/dm <sup>3</sup>
4508-xxx-x	2,00 – 2,40 mm	2,50 kg/dm <sup>3</sup>	1,47 kg/dm <sup>3</sup>
4510-xxx-x	2,40 – 2,90 mm	2,50 kg/dm <sup>3</sup>	1,47 kg/dm <sup>3</sup>
4511-xxx-x	2,85 – 3,45 mm	2,50 kg/dm <sup>3</sup>	1,46 kg/dm <sup>3</sup>
4512-xxx-x	3,40 – 4,00 mm	2,50 kg/dm <sup>3</sup>	1,46 kg/dm <sup>3</sup>
4513-xxx-x	3,80 – 4,40 mm	2,50 kg/dm <sup>3</sup>	1,46 kg/dm <sup>3</sup>
5002-xxx-x	1,30 – 1,70 mm	2,50 kg/dm <sup>3</sup>	1,47 kg/dm <sup>3</sup>
5003-xxx-x	1,80 – 2,20 mm	2,50 kg/dm <sup>3</sup>	1,47 kg/dm <sup>3</sup>
5004-xxx-x	2,30 – 2,70 mm	2,50 kg/dm <sup>3</sup>	1,47 kg/dm <sup>3</sup>
5005-xxx-x	2,70 – 3,30 mm	2,50 kg/dm <sup>3</sup>	1,46 kg/dm <sup>3</sup>
5006-xxx-x	3,20 – 3,80 mm	2,50 kg/dm <sup>3</sup>	1,46 kg/dm <sup>3</sup>
5009-xxx-x	3,70 – 4,30 mm	2,50 kg/dm <sup>3</sup>	1,46 kg/dm <sup>3</sup>
5010-xxx-x	4,20 – 4,80 mm	2,50 kg/dm <sup>3</sup>	1,45 kg/dm <sup>3</sup>
5011-xxx-x	4,70 – 5,30 mm	2,50 kg/dm <sup>3</sup>	1,45 kg/dm <sup>3</sup>
5012-xxx-x	5,70 – 6,30 mm	2,50 kg/dm <sup>3</sup>	1,45 kg/dm <sup>3</sup>
5013-xxx-x	6,70 – 7,00 mm	2,50 kg/dm <sup>3</sup>	1,44 kg/dm <sup>3</sup>

Glass-Flakes				
Article	Size particle	Gauge	Spec. Weight	Bulk density
1240-xxx-x	45 – 300 µm	5 µm	2,52 kg/dm <sup>3</sup>	0,32 kg/dm <sup>3</sup>
1280-xxx-x	45 – 1700 µm	5 µm	2,52 kg/dm <sup>3</sup>	0,20 kg/dm <sup>3</sup>

**available Sizes:**

<b>Glass-Glitter</b>				
Article	Size particle	Gauge	Spec. Weight	Bulk density
1040-xxx-x	1,40 – 1,80 mm	0,20 – 0,35 mm	2,38 kg/dm <sup>3</sup>	1,20 kg/dm <sup>3</sup>
1050-xxx-x	1,25 – 1,60 mm	0,20 – 0,35 mm	2,38 kg/dm <sup>3</sup>	1,25 kg/dm <sup>3</sup>
1060-xxx-x	0,90 – 1,40 mm	0,20 – 0,35 mm	2,38 kg/dm <sup>3</sup>	1,25 kg/dm <sup>3</sup>
1070-xxx-x	0,50 – 0,90 mm	0,20 – 0,35 mm	2,38 kg/dm <sup>3</sup>	1,30 kg/dm <sup>3</sup>
1080-xxx-x	0,30 – 0,60 mm	0,20 – 0,35 mm	2,38 kg/dm <sup>3</sup>	1,30 kg/dm <sup>3</sup>
1090-xxx-x	0,25 – 0,40 mm	0,20 – 0,35 mm	2,38 kg/dm <sup>3</sup>	1,35 kg/dm <sup>3</sup>
1100-xxx-x	0,20 – 0,30 mm	0,20 – 0,35 mm	2,38 kg/dm <sup>3</sup>	1,35 kg/dm <sup>3</sup>

<b>Glass-Nuggets</b>			
Article	Grain size	Spec. Weight	Bulk density
1520-xxx-x	2,50 – 4,00 mm	2,50 kg/dm <sup>3</sup>	1,40 kg/dm <sup>3</sup>
1530-xxx-x	0,80 – 1,20 mm	2,50 kg/dm <sup>3</sup>	1,35 kg/dm <sup>3</sup>
1540-xxx-x	0,50 – 1,50 mm	2,50 kg/dm <sup>3</sup>	1,35 kg/dm <sup>3</sup>
1580-xxx-x	0,30 – 0,60 mm	2,50 kg/dm <sup>3</sup>	1,25 kg/dm <sup>3</sup>

Further sizes available by request

**Standard Colours (according to Pantone) / Pigments:**

Colours	CI		
007 black	77266		
021 orange	21115		
107 yellow	21108		
110 gold (Färbung W, WS)	Solvent yellow 83:1	21108	21115
110 gold (Färbung L, LA, LS)	21108		
111 chartreuse	21108	74160	77266
157 copper	21108	21115	
164 red copper	21108	12514	
178 salmon	12485	21108	
183 dark copper	21108	12485	
187 red (Färbung W, L, LA)	12514		
187 red (Färbung WS, LS)	12514	21115	
211 pink	12485		
217 rose (Färbung W, L, LA)	77891	12485	
217 rose (Färbung WS, LS)	12485		
234 fuchsia	12485	51319	
255 purple	12485	51319	
264 lavender (Färbung W, L, LA)	77891	12485	51319
264 lavender (Färbung WS, LS)	51319		
285 light blue	74160		
288 blue	74160	51319	
291 sky blue	74160		
315 turquoise	74160	21108	
341 green	74260	74160	
346 light green	74260		
374 kellygreen	74260	21108	
491 brown	12510	12514	77266
504 bronze	12514	77266	74160
877 silver	---		
999 white	77891		

Further colours available by request

**Product Data Sheet**
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**Resistance:**

Medium	Condition	Result W /WS	Result L /LS /LA
Temperature	up to 175 °C	resistant	resistant
MEK (Methyl Ethyl Ketone; 99%)	15 min	not resistant	resistant
Isopropanol (25%)	15 min.	not resistant	resistant
Isopropanol (70%)	15 min.	not resistant	resistant
Deminerlized H <sub>2</sub> O	3 months	not resistant	resistant

**Storage indication:**

Store in a dry manner in closed (original) container by room temperature.  
 We recommend storage life of maxium 2 years.

**Disposal information:**

There is no type of waste that occurs due to the product that requires special supervision according to the German "Closed Substance Waste Management Act" or the 91/689/EWG and 2006/12/EG guidelines.

**Further information:**

Safety Data Sheet SiLiglit Deco Beads  
 Safety Data Sheet SiLiglit Glas-Glitter, Flakes, Nuggets  
 Safety Data Sheet SiLiglit Glas-Glitter, Flakes, Nuggets coloured  
 Sample Card SiLiglit Deco Beads  
 Sample Card SiLiglit Glass Glitter / Glass Nuggets

We princibly recommend to make a trial test before starting production.

Data are reference values!