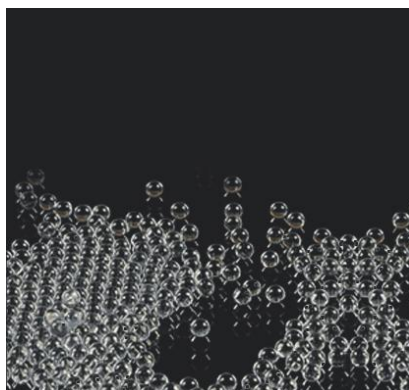




► Glass beads



Chemical composition in %

|                                |         |     |         |                               |         |
|--------------------------------|---------|-----|---------|-------------------------------|---------|
| SiO <sub>2</sub>               | 61-67 % | CaO | 5-10 %  | NaO                           | 10-18 % |
| Al <sub>2</sub> O <sub>3</sub> | 3-8 %   | MgO | 0.5-3 % | B <sub>2</sub> O <sub>3</sub> | 1-5 %   |

Leadfree glass composition

| Code   | Diameter   | N*   | In 1kg | S. de contacto | Beads in 1L |
|--------|------------|------|--------|----------------|-------------|
| PBF001 | 2 ± 0,2 mm | 900  | 95.493 | 11.994         | 1.550       |
| PBF002 | 3 ± 0,2 mm | 1600 | 28.294 | 7.995          | 1.570       |
| PBF003 | 4 ± 0,3 mm | 2300 | 11.937 | 5.997          | 1.565       |
| PBF004 | 5 ± 0,3 mm | 2600 | 6.112  | 4.798          | 1.555       |
| PBF005 | 6 ± 0,3 mm | 3600 | 3.537  | 3.998          | 1.540       |
| PBF006 | 7 ± 0,3 mm | 3800 | 2.227  | 3.426          | 1.520       |
| PBF007 | 8 ± 0,4 mm | 5200 | 1492   | 2.999          | 1.505       |

\* N, crushing strenght

Physical and chemical characteristics

|                                         |                                            |
|-----------------------------------------|--------------------------------------------|
| Specific weight                         | 2.500±40 kg/m <sup>3</sup>                 |
| Coefficient of thermal extensi3n        | (9,2±0,4).10 <sup>-6</sup> K <sup>-1</sup> |
| Littleton softening point               | TL=670±10 3C                               |
| Bulk weight                             | 1.485 kg/m <sup>3</sup>                    |
| Hardness Mohs                           | 6                                          |
| Microhardness Vickers and Rockwell      | 970-1018kp/cm <sup>2</sup>                 |
| Elasticity module                       | 7,75 Mpa                                   |
| Young module of elasticity E            | 78-85 Gpa                                  |
| Hydrolytic class                        | HGB 3                                      |
| Acidic class according to DIN 12116     | III                                        |
| Alkaline class according to CSN ISO 695 | A-1 CLASS                                  |