

# Subsieves - Spheriglass® 7010 and 7025

- They are:
- high-strength microspheres
  - solid and translucent
  - appear like a white powder
  - surface coated and can be used in different processes and final parts

Their usage is particularly recommended in very fine layers or walls (20µm, 30µm,...) thanks to their perfectly controlled particle size.

|      | SPG 5000 | SPG 7010 | SPG 7025 |
|------|----------|----------|----------|
| D10  |          |          |          |
| D50  | 4-7      | 2-3      | 8-11     |
| D95  | 18-23    | 6-8      | 16-19    |
| D100 | 45       | 10       | 25       |

## Advantages

- Glass composition and impervious surface of the microspheres improve film integrity and durability.
- They contribute to an effective barrier against corrosion, chemicals, reducing surface porosity.
- These products are typically used to improve hardness, add burnish, scrub and abrasion resistance to a variety of coating formulations.
- They give minimum impact in clear coatings. Gloss level could be controlled by loading ratio
- Due to the chemistry, they are also UV transparent and have utility in radiation-curable and thin-film powder coatings.
- They also block shrinkage and warpage and enhance impact strength.

## Applications

Subsieve - Spheriglass® can be used in:

- architectural, industrial paints, adhesives, topcoats, powder coatings, flooring, wood coatings, barrier coats,... Typical dosage in coating systems is between 3 and 7 % by weight.
- Films for anti blocking properties. Typical dosage in films is between 1 to 3 % by weight.
- Coil coatings for their texturing effect. Typical dosage in coil coatings is between 1 to 5 % by weight.
- Gaskets. Typical dosage is between 1 to 5 % by weight.
- Phenolic and polyester parts to block the shrinkage and improve impact strength better than bigger microspheres.
- Varnishes for rubber application to ease the rubber part processing by giving better lubrication

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