



Series of spare parts made of borosilicate glass 3.3

Soffieria Sestese S.r.l.

Via Riccardo Wagner, 291
20831 Seregno (MB) – ITALY

Ph. +39 0362 17.90.991
Fax +39 0362 17.95.763

VAT Ref. IT00846850964
F.C. 07109250154

info@soffieriasestese.it



www.soffieriasestese.it

Soffieria Sestese proposes two types of glass coating with different formulation and characteristics.



1. Fragment retentive coating for packaging glass or drain off protection for 3.3 borosilicate glass

Hydrolux is an UV curing water based coating for glass with the specifications:

- Drain off protection
- Fragment retention

Hydrolux is a highly transparent coating 200 ÷ 300 µm film thicknesses, applied by spraying. The permissible operating temperature is 140°C, but it can also go up to 230°C for short time periods. Above 140°C the coating turn amber color, but this has no adverse effect on its protection function.

Hydrolux has the following properties:

- Autoclaving 1 (one) hour at 134°C with 5 (five) cycles unchanged
- Dishwasher proof with thermal 50 (fifty) washing cycles disinfection at 53°C unchanged

Resistant to the following media:

- Water 5 (five) minutes at room temperature unchanged
- 20% hydrochloric acid 5 (five) minutes at room temperature unchanged
- 20% sulphuric acid 5 (five) minutes at room temperature unchanged
- Acetone 5 (five) minutes at room temperature unchanged
- 2 – propanol 5 (five) minutes at room temperature unchanged
- Carbon tetrachloride 5 (five) minutes at room temperature unchanged

Resistance to special loads should be tested.

2. Conductive coating for 3.3 borosilicate glass

When some component or whole borosilicate glass 3.3 plant have to operate in areas classified at high risk of explosion according to the directive ATEX 99/92/CE, its very important to take into consideration the risk of the electrostatic charges. According to the normative CLC/TR 50404 : 2003, the borosilicate glass 3.3 is a dissipative material with small values of surface resistivity 10¹⁰ Ω.

Soffieria Sestese proposes, to improve the characteristics of conductivity proper of the borosilicate glass 3.3, a conductive polymeric covering with the following characteristics:

- Wet film thickness 4 ÷ 6 µm
- Surface Resistivity 10⁶ Ohm (in accordance IEC Standard 93; VDE 0303; ASTM D 257)
- Transmission at 550 nm > 95% (for 4 ÷ 12 µm wet film thickness)
- Viscosity: 25 mPa
- pH value: 8
- Max admissible temperature: 140°C

The conductive coating is applied by spraying to desiccation UV and usually, in action combined with Hydrolux to increase the mechanical characteristics of the borosilicate glass 3.3.