

AERODISP® fumed silica dispersions for fire-resistant glass

Thin light-weight constructions with excellent performance and optical quality



AERODISP® W 1244 is a tailored fumed silica dispersion for manufacturing of high-end fire-resistant glass in a simple production process.

The excellent performance of AERODISP® W 1244 based fire-resistant glass is proven by numerous certification tests and by customer experience.

Benefits with AERODISP® W 1244 based fire-resistant glass

- Thin glass package
- Outstanding fire-resistant performance
- High transparency
- UV-stability
- Durability

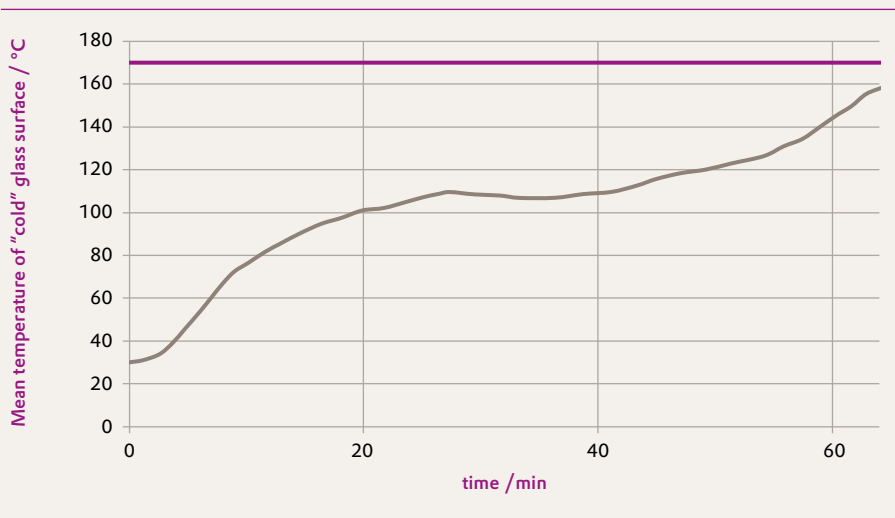


Figure 1 Mean temperature on the cold surface of EI 60 glass during fire test (EN 13501-2). The value of heat flow (criterion W) remained below 1,5 kW/m².



How to apply AERODISP® W 1244 based technology for cast-in-place fire-resistant glass

1. Mixing of AERODISP® W 1244 with KOH-solution in a given ratio
2. Degassing according to the determined temperature-pressure profile in vacuum reactor
3. Filling of glasses (one interlay for 30 min EI)
4. Sealing of glasses
5. Curing at elevated temperatures to obtain optical transparency



Advantages of AERODISP® W 1244 based technology in brief

- Simple equipment
- Two component system
- Process reliability
- Reproducible quality
- Low waste
- Environmental safety
- Low investment costs

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