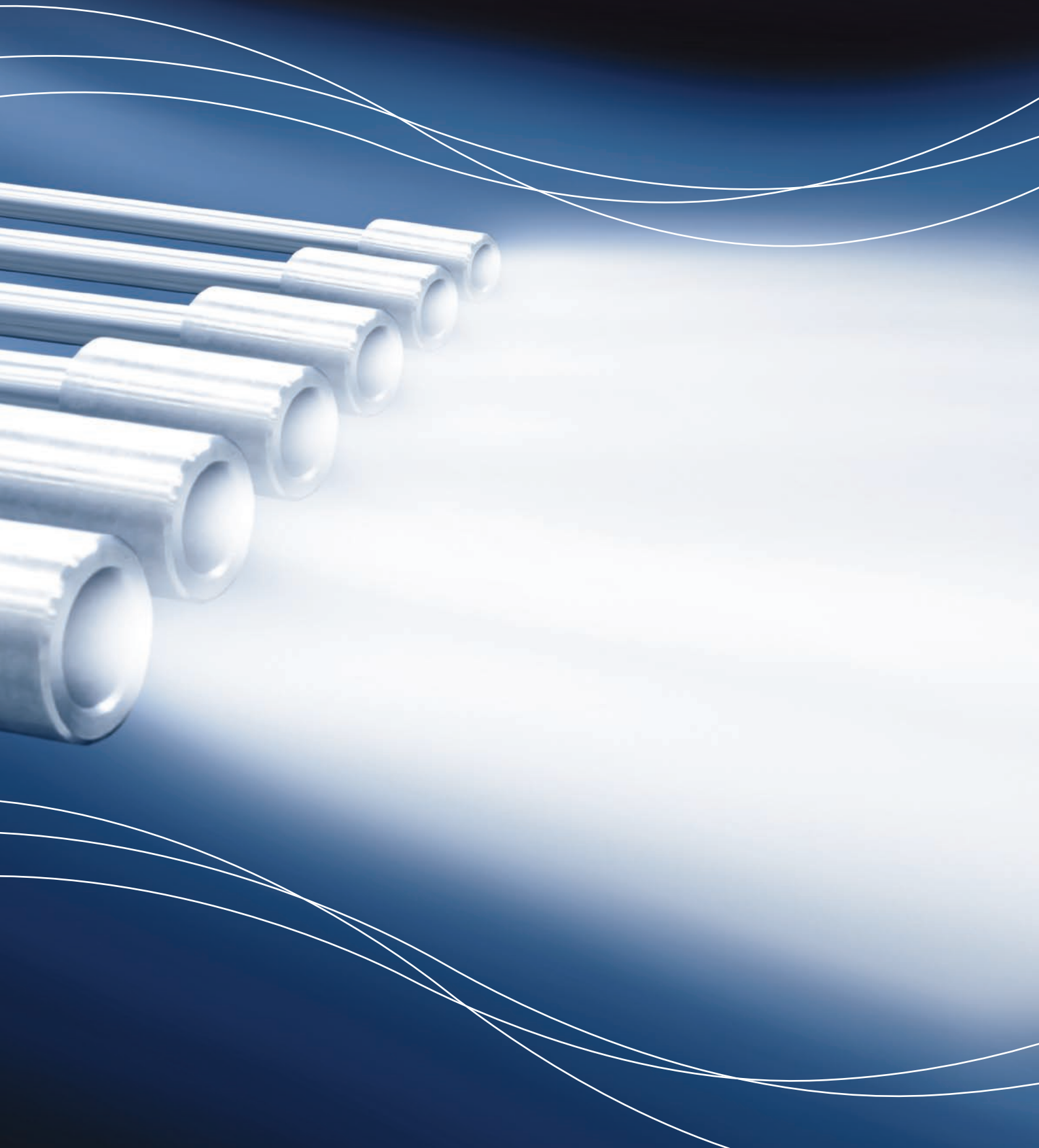


nAERO™ - Aerosol Based Coating

For Low-emissivity and TCO-coatings on Glass



nAERO™ - Aerosol Based Coating

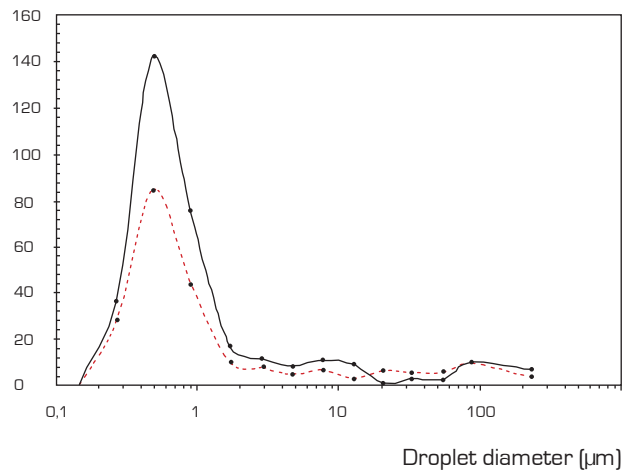
For Low-emissivity and TCO-coatings on Glass

Aerosol Based Coating (nAERO) meets the requirements set by today's advanced applications on glass. In the nAERO process, submicron droplets are directly deposited on hot glass, where they form a uniform and durable coating. The rapid diffusion rate, efficient evaporation and high surface area of the submicron aerosol ensure a competitive coating growth rate. As the deposition process can be easily scaled, it can be adapted to the production speeds of glass manufacturing and post-processing lines. The main applications for nAERO are low-emissivity and TCO - coatings on glass.

Technical Specifications

Substrate	Glass (in-line and off-line)	
Coatings	TCO, Low-E, TiO ₂	
Precursors/Materials:		
Liquid	MBTC, TTIP, ... depending on the application	
Gas	Nitrogen (N ₂)	
Deposition temperature:		
Typical temperature range	500 - 600 °C	
Mean droplet size	< 1 µm	
Typical coating values:		
Emissivity	< 0.15	(For Low-E)
Sheet Resistance	< 15 Ω/square	(For TCO)

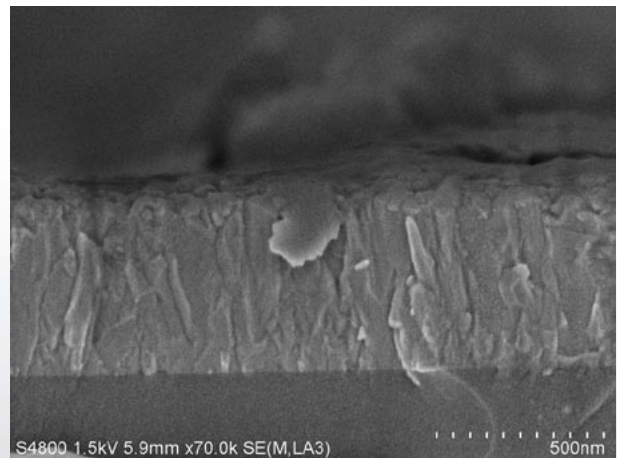
Mass concentration (mg/m³)



nAERO™ Gallery



nAERO process produces an aerosol with submicron droplet size.



SEM-image of a TCO-coating produced with nAERO.