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Country	Finland

PRODUCTS OR MACHINERY

Beneq´s main technologies are Atmospheric nHALO & nAERO aerosol coating technologies and Atomic Layer Deposition (ALD). nHALO is a flame spray technology, used mainly for applying various functional coatings on glass, ceramic tiles, and some metals. It is also used for multicomponent nanoparticle synthesis. In the nAERO process, submicron droplets are directly deposited on hot glass and forming a uniform coating film.

ALD is used to produce accurate, pinhole-free and conformal thin-film coatings on various substrates.

Applications:

nSILVER® - Provides invisible protection against silver tarnishing.
nOPTOTM - High accuracy and uniform optical coatings.
nTRIBOTM - Extremely uniform tribological coatings for complex shapes.
nPRIMERTM - A tailored method for increasing adhesion of sputtered coatings for engineering materials.
nCLEAR® - Barriers layers for metals, plastics and glass.
nCOLORTM - Novel method for colouring of glass, both off- and on-line, both float and patterned.
nCLEANTM - Hydrophilic, easy to clean and antimicrobial surfaces.
Photovoltaics - Advanced thin film technology for PV-applications.

Systems

Atomic Layer Deposition - Thin film Atomic Layer Deposition Systems for Industrial Applications and Research use
nHALO® - Equipment for functional coatings on glass and ceramics. Laboratory equipment for functional nanoparticle synthesis and deposition
Services - Coating and Industrialisation Services

Thin film electroluminescent displays, TFEL
Lumineq® TFEL displays, ideal for embedded applications, represent the best viewing experience available for extreme conditions. TFEL displays are reliable, robust and proven in use in the harshest places on earth and in space. Excellent vibration and shock resistance, together with a compact and lightweight build, make these displays better than the rest.

Transparent electroluminescent displays, TASEL®
Lumineq® TASEL® displays combine the rugged and reliable build of TFELs with the unique freedom of designing a completely transparent display. TASEL is ideal for consumer electronics, architectural use and other fields where viewing experience and product aesthetics is of paramount importance.

Thin film electroluminescent glass
Do you want to combine the reliability and viewing experience of TFEL displays with your in-house electronics? Lumineq® TFEL glass gives you the freedom to design your own electronics and embed a TFEL display in your OEM product. Lumineq offers TFEL solutions tailored to meet your application's requirements.