

April 16, 2009
Nippon Electric Glass Co., Ltd.

Nippon Electric Glass Introduces LX Premium, an Innovative Radiation Shielding Lead Glass That Does Not Stain or Discolor When Wiped With a Wet Cloth

Nippon Electric Glass Co., Ltd. (head office: Otsu, Shiga, Japan; President: Yuzo Izutsu) will introduce LX Premium, an innovative new radiation shielding lead glass, in late April. This new material will significantly reduce healthcare workers' exposure to radiation at radiological diagnostic facilities.

While lead glass can shield radiation, conventional products have had problems with staining and discoloration when moisture adheres to glass surfaces. This can occur when glass surfaces are touched by bare hands (transferring sweat or lipids) or when glass is wiped with a wet cloth.

Nippon Electric Glass (NEG) LX Premium has a multilayer structure, created by inserting LX-57B high-lead glass (which has excellent radiation shielding capability) between panels of protective sheet glass. As a result, a glass surface will not stain or discolor even when chemicals splash on it or it is wiped with a wet cloth. LX Premium has overcome the weakness of lead glass and achieved high maintainability. Having evolved from conventional radiation shielding lead glass, it represents the next generation of radiation shielding glass with excellent shock resistance.

LX Premium will be exhibited at the NEG booth at the International Technical Exhibition of Medical Imaging 2009, which will be held from April 17 to April 19 at Pacifico Yokohama.

■ Features

1) High transparency

Because the lead glass is protected by glass sheets, the glass surface will not stain or discolor when lead substances react to moisture or lipids) even when chemicals adhere to it or it is wiped with a wet cloth. High transparency can be maintained with ease.

2) Excellent maintainability

Because it is protected by glass sheets on both surfaces, the glass can be cleaned using such items as a wet cloth, glass cleaners, and detergents without any concern about staining or discoloration, in the same way as cleaning ordinary windowpanes.

3) Safety

Like automobile windshield glass, it is a multilayer laminated glass and is resistant to shattering even when it is broken. It excels in shock resistance.

■ Main Applications

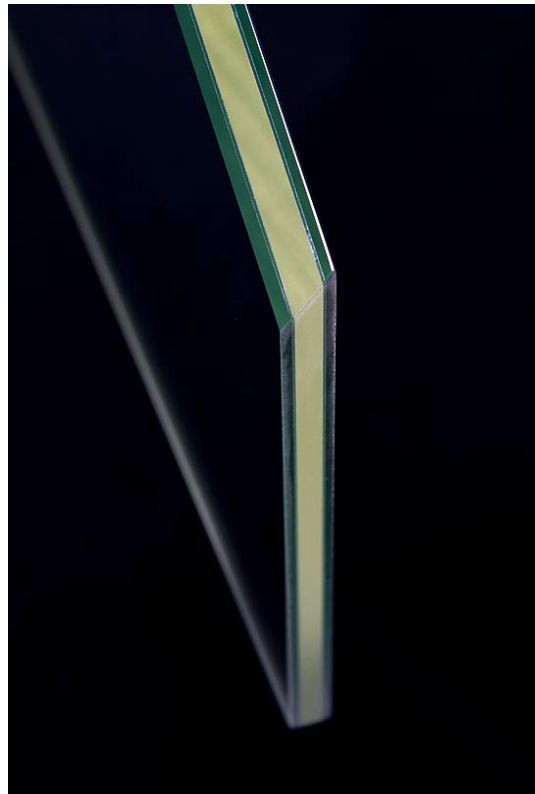
- (1) Window of an X-ray control booth that requires sterilization
- (2) Observation window for an angiography room or the like where chemicals are likely to spatter
- (3) Inspection window of a door that is frequently touched by people

■ Release

Late April 2009



LX Premium has excellent radiation shielding capability and ensures a clear view.



Cross section of LX Premium