



GLASS SURFACE SYSTEMS Inc.
Shatterproof Safety Lighting Solutions

Thermaguard-
Red and Clear Heat Lamps

Sureshield-
Metal Halide, Mercury,
High Pressure Sodium

Popguard-
Premium Fluorescent

Sureguard-
Incandescent Lamps

Compguard-
Compact Fluorescent

Permasleeve-
Economy Fluorescent

Freezerglo-
Freezer Cold Climate Lamps

Globe Guardian-
Globes, Jars, Laboratory Glassware

INDUCTION LAMPS®

LOW-ENERGY LONG LIFE SHATTERPROOF INDUCTION LAMPS

Induction Lighting! We can shatterproof all induction lighting at GSS! Glass Surface Systems can also offer a wide range of **COLOR** coatings on these lamps. Induction boasts a long rated life. In many cases, induction sources last up to 100,000 hours. This is possible because unlike most lighting types, induction sources do not rely on an electrode or filament.



How Induction lighting works:

Functionally, induction works in a very similar manner to a typical fluorescent bulb. The primary difference is that induction sources do not use electrodes to ignite the lamp. Instead, fluorescent induction bulbs have a large electromagnet, which is usually wrapped around one segment of the bulb. This serves as an induction coil. There is also a pellet of amalgam (composed of solid mercury) inside of the bulb. The induction coil produces a strong magnetic field which travels through the glass and excites the mercury atoms in the amalgam. The mercury atoms emit UV light, which is converted to visible light by the phosphor coating inside of the tube.

TOTAL COMPLIANCE



ALL MAKES AND BRANDS



SUPERIOR COATINGS SHATTERPROOF PROTECTION

- **COLORED** or frosted white, round or rectangle, **All** shapes, sizes and wattages
- Reduction in energy use of about 50%.
- Lasts up to 100,000 hours.
- Very low lumen degradation over the life of the lamp
- Induction does not use electrodes to ignite the lamp.
- COATING ONLY available on customer's lamps



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