

LG Innotek provides high quality for Functional Coating Glass. The concept of Functional Coating Glass is adding more functions on the normal glass. The coating glasses maintain its original optical characteristic; nonetheless, have more functions such as anti-pollution, anti-fog and anti-reflection.

## Answer for Coating Glass

Through the spray wet coating process, not only coating covers thinly and uniformly, but also is available on the large or curved glass. LGIT has its own material blending technology which provides the best coating glass.

Contact us to add our value on your product.

R&D [nacooltj@lginnotek.com](mailto:nacooltj@lginnotek.com)

Marketing [wrju@lginnotek.com](mailto:wrju@lginnotek.com)

[sh.kim@lginnotek.com](mailto:sh.kim@lginnotek.com)

### Anti-Pollution Coating

Anti-Pollution Coating prevents the glass from being contaminated. Because the surface tension is very small, the particles cannot be attached on the glasses. The thickness of coating is 5~10nm and the contact angle between the glass and the water is over 100°. Therefore, the glasses are hardly going to get dirty. Also, cleansing is much easier than the normal glass.



Bare



AP Coating

### Anti-Fog Coating

Anti-fog Coating makes the particles easy to be attached because the surface tension is very large. The contact angle between the glass and the water is under 10°. The water on the Anti-Fog Coating glass is spread broadly and it is evaporated fast. Through this characteristic, the glasses do not get damp and have self-cleansing function.

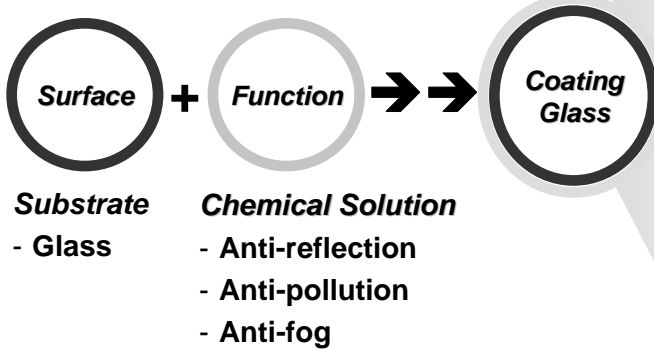


Bare

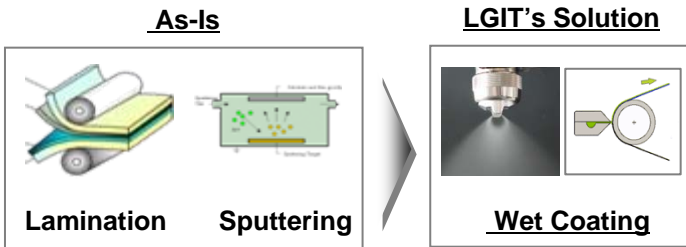
AF Coating

# Functional Nano Wet Coating Glass

## Function & Roll



## MFG Method of Functional Glass



### Anti-fog, Self Cleaning



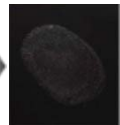
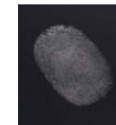
Anti-fogging



### Easy Cleaning, Anti-fingerprint



Anti-Pollution



### Transmittance Enhancement



Anti-Reflection



### Advantages

- ✓ Large Scale
- ✓ Low Cost
- ✓ Curve, Flat Type Substrate
- ✓ Thin & Uniformly Distributed
- ✓ Materials In-house

## Performances

		Transmittance at 550m	Surface Hardness	Contact Angle	Reflectance at 550nm
	AP	91.5%	7H	34° → 114°	4.7%
	AF	91.8%	7H	34° → 6.8°	4.5%
AR	1L AR	91.1% → 93.2%	3H	-	4.7% → 1.8%
	3L AR	88.8% → 91.5%	7H	-	4.9% → 0.5%

## Potential Applications

### Touch MNT



### Mobile



### Automobile



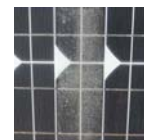
### LCD TV



### Building



### PV



### Solar Heat

