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**Tomorrow**  
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**INNOBIZ**  
기술혁신형중소기업



Registered

# JMC GLASS

(주) 제이엠씨 글라스

(Material & Processing)



(주)제이엠씨글라스

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# Soda Lime Glass / Borosilicate / Fused Silica / Quartz

## Soda Lime Glass (소다라임 글라스)

- Clear Glass (일반투명유리)  
Standard Thickness 0.4~24mm
- Clear View (맑은유리)  
Thickness 0.8~19mm
- B270 (크라운유리-광학용 원자재)  
Thickness 0.8~50mm
- Low-iron Glass(White Clear Glass) 백유리  
Thickness 0.8~19mm
- TN/STN용 박판유리
- OLED용 박판유리

## Borosilicate Glass (붕규산 글라스)

Boron( $B_2O_3$ )을 함유, 내열성, 내산, 내알칼리유리, 배합성분에 따라 알루미늄 보로실리케이트(Alumina), 징크 보로실리케이트(Zinc), 바륨 보로실리케이트(Barium)로 구분

- Corning 7059
- Corning 1737 - TFT/LCD용 유리, 각종 코팅 원자재로 사용
- Corning Pyrex 7740
- D263(박판유리) - Thickness 0.045~1.1mm
- Borofloat(Boro33) - Thickness 0.7~22mm
- AF45 - Thickness 0.03~1.1mm
- Furnace Observation Glass - Blue(용광로 관찰유리)

## Quartz / Fused Silica (석영/합성 Quartz Glass)

- Quartz / Fused Silica
- Corning 7980  
Industrial Grade / Standard Grade / KrF Grade / ArF Grade
- Corning Vycor 7913 - 93%
- JGS Quartz (China)
- GE Quartz (USA)
- Tosoh Quartz (Japan)
- Dynasil Fused Silica



## Glass Ceramic (세라믹 글라스)

- Robax
- Dark Robax
- Schott Oralon
- Pyroceram
- Neo Ceram

## Ultra Low Expansion Ceramic (특수 저팽창 유리)

- Schott Zerodur
- Corning ULE
- Astrosital (Russia)



## Color Filter / Lens & Blank / Crystals

### Optical Color Filter

- Schott Color Filter
- Hoya Color Filter
- JMC Color Filter

### Optical Glass

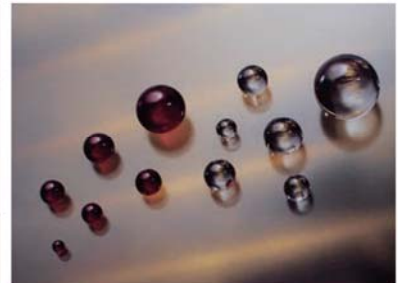
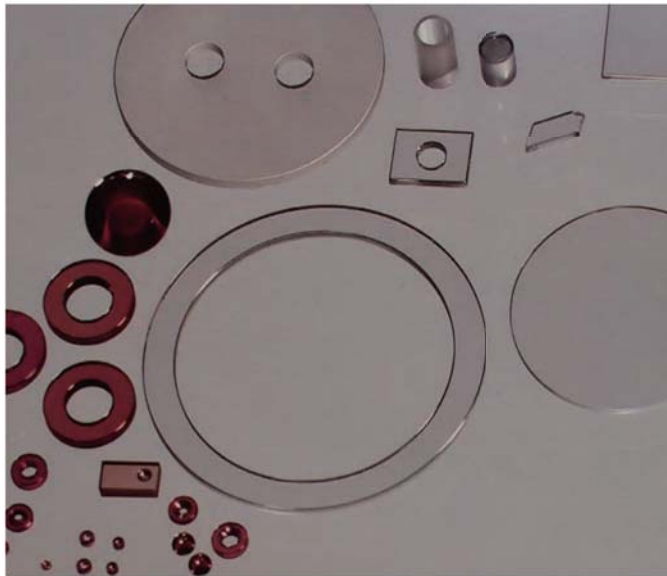
- HOYA / SCHOTT / HIKARI / CDGM / CORNING
- BK7 / F2 / BaK4 / LaSF Series

### Crystals

- Barium Borate ( $BaB_2O_4$ )
- KRS-5, KRS-6
- Potassium Chloride (KCL)
- KTP ( $KTiOPO_4$ )
- Rutile ( $TiO_2$ )
- Calcite ( $Ca_2CO_3$ )
- Lead Molybdate ( $PbMoO_4$ )
- Sapphire ( $Al_2O_3$ )
- Calcium Fluoride ( $CaF_2$ )
- Lithium Fluoride (LiF)
- Scintillation Crystals



## Sapphire / Ruby / Windows / Ball



# Optical Products

## BK7

Lens / Window / Prism / Beamsplitters 등

## Quartz

Flyeye's Lens / 비구면렌즈 등

## Wafer

Quartz / Pyrex / D263 / Corning 1737 / Corning Eagle 2K 등

## Micro Optics

0.03 x 0.03 x 0.03mm ~ 200 x 300 x 25mm 가공

## Display용 노광글라스 (LCD / POB용)

## LCD Glass 검사용 Diffusion Glass

## Standing Bar (Max / Mic)

## Borosilicate Windows

## Cover Glasses

- Laser Diodes
- Opto-Electronic
- Image Sensors
- Base Glass
- Cover Glass for ITO Coatings
- LCD Covers
- Glass Panels
- Instrument Glasses
- Display Technology
- Display Glass
- Instrument Panels

## Fused Quartz Windows

## Glass Discs

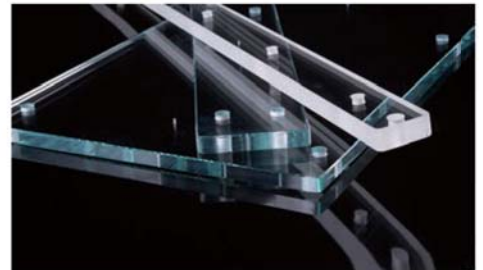
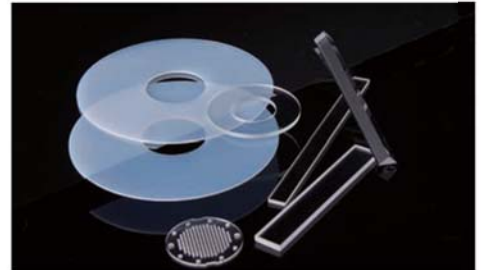
## Glass Substrates

- B270
- D263
- Pyrex
- Boros33
- Corning Eagle 2K
- Float Glass
- Corning 0211

## IR Fused Quartz Windows

## IR Windows (Sapphire, CaF<sub>2</sub>, ZnSe, LiF, MgF<sub>2</sub>, Ge)

- (IR) Infrared Grade Fused Quartz Windows
- Optical Sapphire(Random) Standard Grade IR Windows
- Optical Silicon Windows
- Germanium IR Windows Optical Grade



# Optical Windows / Coated Products

## Laser Windows

- **Specification**  
Parallelism : <2 arc min  
Surface Qualite : to 10/5  
Flatness : to  $\lambda/10$
- **Coatings**  
Single & Multilayer AR Coatings  
High Reflection Laser Mirror > 99% R  
Protected Aluminum > 85% R  
Protected / Enhanced Silver > 97% R



## Light Guides

## Optical Diffusers

## Pressure Windows

## Quartz Cover Slips

## Microspace for PDP, OLED

## Sapphire Windows

## Sight Glasses

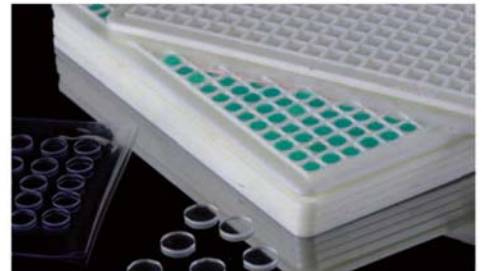
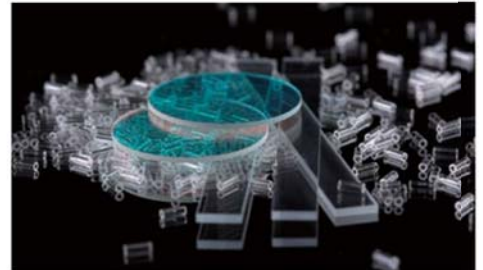
## Silicon Windows

## Toughened Glass Windows

- Thickness 0.7~100mm

## UV Windows

- UV Fused Silica Optical Windows  
UV@180nm to 2,000nm / KrF(248nm) and ArF(193nm)
- UV Optical Glass Windows
- UV Filters  
UV band pass filters Schott UG1, UG5, UG11, MUG11, BG24A  
Schott band pass filter BG3, BG12, BG37, BG39, BG40, BG18 and BG38  
Schott long band pass UV filter WG225, WG280, WG305, WG335, WG345 and WG360

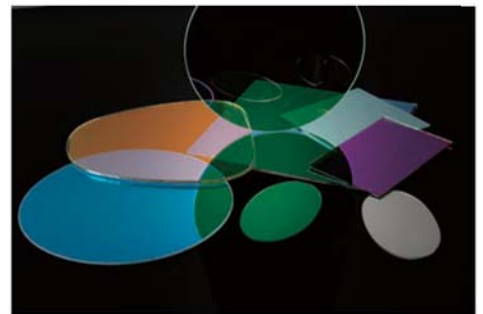


## Wedged Windows

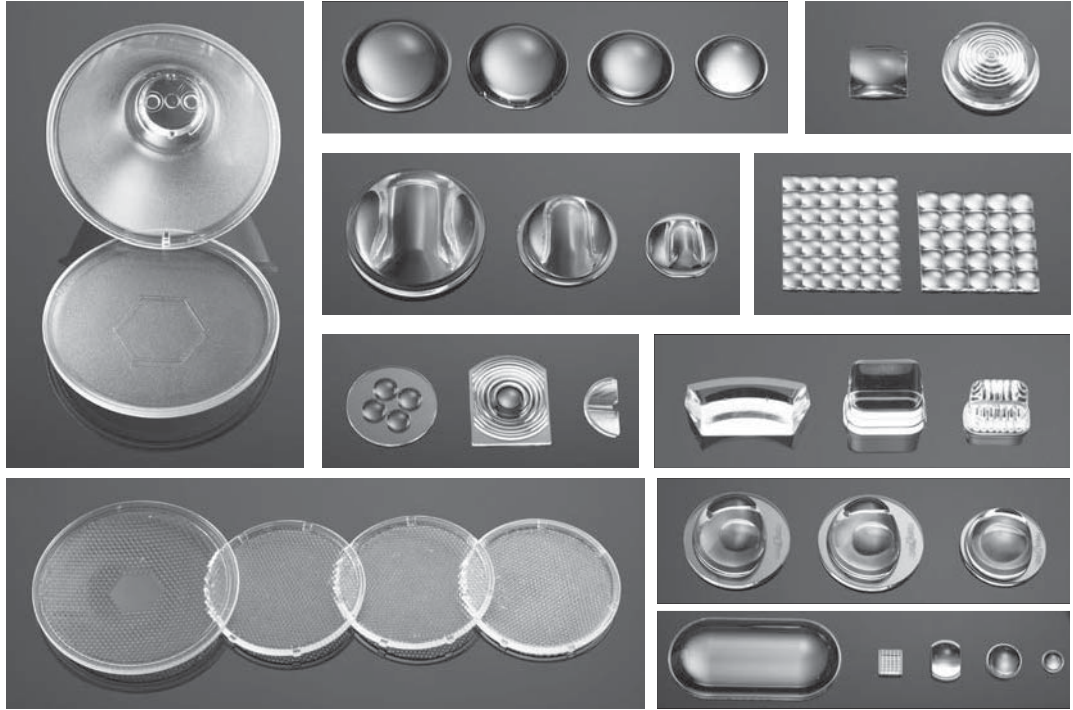
BK7, Borosilicate, Fused Silica

## Coated Products (코팅제품) – 다이크로닉 코팅

- Anti-Fog Coating (안티포그 코팅)
- Beam-Splitters (B/S 코팅)
- Anti-Static Coating (정전기 차단 코팅)
- Cold Mirror (콜드 Mirror)
- Hot Mirror
- ITO Coating
- Dichronic Coating
- Front Surface Coating (전면 표면 코팅)
- UV Blocking Glass (자외선 차단 유리)
- Neutral Density Filter (뉴트럴 필터)



## LED Glass Lens



## LED강화유리 (Tempered Cover Glass)



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## Other Products

### Anti-Reflection Glass

- Mobile Phone Cover
- Show-Case
- Show-Window  
박물관 / 백화점 / 면세점 / 브랜드 shop 등
- 액자 / 표구
- 카메라용

### Spy Glass (One-way Mirror)

- 매장 도난방지 설비
- 병원 심리관찰실
- 경찰서 취조실 등



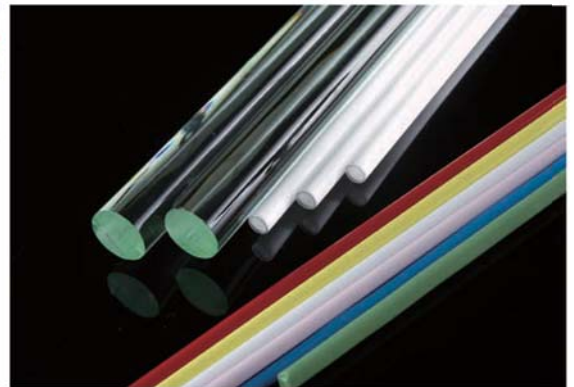
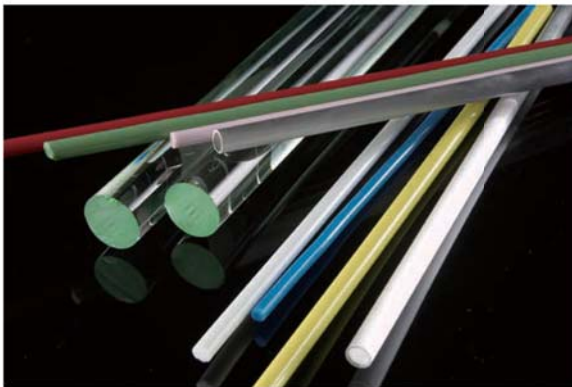
### Industrial Glass

- Safety Sight Glass (안전 시창 유리)
- X-ray Shielding Glass (X선 차단유리 병원, 기타 연구소)
- Touch Screen (터치스크린용 유리)
- Tubing / Rods (유리관/유리봉)
- Thin Glass Cover (박판커버유리)
- Precision CNC Machined Glass (특수 CNC 정밀가공)
- Radiation Shielding Glass (방사능 차단유리)
- Non-Blowming Glass (방사능 투과 변색 방지 유리)



### Art Glass MTL

- Crystal Sheet Glass
- Glass Rods
- Block Glass
- Stained Color Glass
- Spectrum Glass
- Casting Glass
- Blowing : Color Rods etc.
- Lamp Working-Morretti etc.



※ 자세한 Specification 이 필요하신 분은 JMC GLASS 홈페이지([www.jmcglass.com](http://www.jmcglass.com))를 방문하시기 바랍니다.

# Facilities

## 1 Processing



MCT(6, 12, 16, 26)



X, Y Scriber



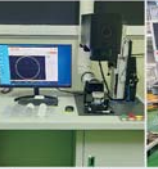
Water - Jet



CNC



Double-Edge Beveling Machine



Laser Sanding Machine



Band saw & Wire saw Machine

## 2 Tempering & Pressing



Chemical Tempering Machine(S)



Chemical Tempering Machine(L)



Mechanical Tempering Machine



Glass Molding Machine



Heating Furnace



High Precision Optical Glass Mold Press Machine

## 3 Polishing



Lapping Machine



Large Polishing Machine (φ2000, φ2500)



High speed Polishing Machine



Rotary Machine

## 4 Coating



Coating Machine

## 5 Cleaning



Large Roller Washer



Small Roller Washer



Automatic Ultrasonic Cleaning Machine



Clean Room

## 6 Inspection & Measurement



Chemical Tempered Surface Gradient Tester (FSM-6000)



Compression Strength Tester



Spectro Photometer (UV-1800)



Light Distribution Tester



2D Vision Inspector



Height Gauge



Surface Roughness Tester (SJ200)



Surface Roughness Tester (SJ500)

