



Asahi India Glass Ltd.



ENABLING WONDERS.  
INSPIRING AWE.

# AIS Products

AIS is India's leading automotive and building glass company with a wide range of international quality glass to suit various applications across multiple industries. Certified as an ISO 9001 and ISO 14001 company, AIS continues to innovate and add to its portfolio of comprehensive glass solutions which include Clear & Tinted, Heat Reflective, Frosted and Back-painted High-Performance glass, Processed glass and Mirrors – all of them designed to change the way you see and use glass.

## AIS Clear Float Glass

Gives a clean and modern look to the exterior façade.

### Benefits

- Distortion-free • Clarity of vision • Sparkling surface

### Usage

- Shopfronts • Partitions • Doors • Shelves
- Furniture • Windows



## AIS Tinted Glass

Blocks the sun's heat, allowing the room to remain cool.

### Benefits

- Absorbs 30% to 45% of solar heat • Enhances the aesthetic appearance of buildings • Protects against glare

### Usage

- Partitions • Doors • Shelves • Furniture • Windows

Colours available:  
Dark Grey, Green, Bronze, Dark Blue, Royal Blue,  
Cool Green, Aqua Blue



## AIS Opal

Economical range of solar control glass providing value for money.

### Benefits

- Durable coating • Solar Control Glass • Available in thicknesses of 3.5 mm, 4 mm and 5 mm in various sizes

### Usage

- Exterior façades • Windows

Colours available:  
Royal Blue, Cool Green, Golden Bronze, Pearl Grey, Aqua Blue



## AIS Opal Trendz

Solar control glass that combines vibrant shades with vivid patterns

### Benefits

- Creates a delightful play of light and colour

### Usage

- Exterior façades • Windows • Partitions

Colours available:  
Royal Blue, Aqua Blue, Cool Green, Pearl Grey, Golden Bronze  
Available in five exciting patterns: Mini Squares, Box Stripes, Cross Hatch, T-Weave, Bubble Mist



## AIS SunShield

AIS SunShield is a high-performance product that combines durability with advanced heat-reflective technology. Spanning a wide range of applications, AIS SunShield offers you a host of unmatched benefits that will help you do more with glass.

### Benefits

- Superior solar control – choose comfortable interiors by minimising solar heat gain • Superior UV protection due to superior coating • Superior cooling – experience the ultimate in all-weather cooling comfort

### Usage

- Exterior façades

Colours available:  
Leaf Green, Oceanic Blue, Radiant Amber, Icy Clear, Royal Gold



## AIS SunShield Trendz

AIS SunShield Trendz brings together the functional superiority of AIS Heat-Reflective glass and the refreshing new aesthetics of Patterned, Heat-Reflective glass – giving our customers the opportunity to embrace a trendier alternative.

### Benefits

- Available in vibrant colours and patterns • Coloured, Patterned, Heat-Reflective glass

### Usage

- Exterior façades • Windows • Interior Partitions

Colours available:  
Leaf Green, Oceanic Blue, Radiant Amber, Icy Clear, Royal Gold  
Available in Cross Hatch, T- Weave, Mini Squares, Box Stripes, Bubble Mist patterns.

## AIS Décor

An exclusive range of coloured opaque glass for interior applications.

### Benefits

- Can withstand temperatures of up to 80°C • Can be cut, drilled, ground, edge-finished

### Usage

- Partitions • Doors • Cabinet doors • Tabletops • Kitchens and Bathrooms • Writing boards

Available in 34 exciting shades  
Thicknesses: 4 mm, 5 mm and 6 mm



## AIS Krystal

AIS Krystal is a frosted glass, which admits light and at the same time obscures the view. It offers quality excellence owing to its superior glass manufacturing techniques.

### Benefits

- Its translucent feature ensures privacy and aesthetic appeal • It has a distinctive matte finish that enhances the aesthetic appeal of the surroundings • Comes in four shades – Clear, Green, Blue and Bronze

### Usage

- Translucent partitions • Writing boards • Doors for cabinets
- Bathroom windows • Various interior decorative applications

Available in 4 exciting shades:  
Clear, Green, Blue and Bronze  
Available in a variety of patterns





### AIS Mirror

New-generation, environment-friendly copper- and lead-free mirrors that are available in clear as well as in bronze and grey tinted shades.

#### Benefits

- Distortion-free • Durable • Environment-friendly
- Ideal for hot and humid environments

#### Usage

- Bedrooms & Bathrooms • Shops & Showrooms
- Hotel Lobbies • Furniture • Clinics & Hospitals

Available in:

Tinted Bronze, Grey



### AIS Ecosense Exceed

The Exceed range of glass is a solar-control, Low-e, double-glazed solution that combines energy efficiency and aesthetics.

#### Benefits

- Eco-friendly • Ideal for 'green building' concept

#### Usage

- Exterior façades • Windows

Colours Available:

- Brook Plus Series: Clear Brook Plus, Blue Brook Plus, Green Brook Plus
- Vision Plus Series: Clear Vision Plus, Blue Vision Plus, Green Vision Plus
- Lite Plus Series: Clearlite Plus, Bluelite Plus, Greenlite Plus
- Comfort Series: Clear Comfort, Blue Comfort, Green Comfort
- Priva Series: Clear Priva, Blue Priva, Green Priva
- Platina Series: Clear Platina, Blue Platina, Green Platina
- Radiance Series: Clear Radiance, Blue Radiance, Green Radiance
- Aurelia (Gold)
- Blue Berry
- Electric Blue



## Range of AIS Ecosense Products

The AIS Ecosense range of high performance, energy-efficient products provide the right blend of daylight and energy-saving, visual comfort and thermal control, technology and eco-sensitivity. The range of our Ecosense products include: Enhance, Exceed, Essence, Edge and Excel.

### AIS Ecosense Enhance

AIS Ecosense Enhance is a solar-control glazing solution that lets you stay close to nature.

#### Benefits

- Improves energy efficiency and daylight parameters
- Helps reduce electricity bills
- Allows the optimum amount of light to pass through

#### Usage

- Exterior façades • Windows

Colours available:

- Clear Series : Dawn, Snow, Aura, Spring, Nectar, Nimbus, Ivory
- Blue Series : Cove, Orchid Blue, Bay, Marine, Indigo, Serene, Oasis, Oceanic Blue Plus, Bluebell
- Green Series: Pine, Jade, Coral, Meadow, Lime, Harmony, Citrus
- Gold



### AIS Ecosense Excel

AIS Ecosense Excel is a specialised 'green building' glass with advanced solar-control and double Low-e coating. This glass product comes with excellent thermal insulation and best-in-class solar-control performance.

#### Benefits

- Its superior insulation properties help achieve better energy savings • Provides environmental benefits

#### Usage

- Exterior façades • Windows

Colours available:

- Pearl Series: Clear Pearl, Blue Pearl, Green Pearl
- Sparkle Series: Clear Sparkle, Blue Sparkle, Green Sparkle
- Star Series: Clear Star, Blue Star, Green Star
- Marvel Series: Clear Marvel, Blue Marvel, Green Marvel
- Vivid Series: Clear Vivid, Blue Vivid, Green Vivid
- Dazzle Series: Clear Dazzle



### AIS Ecosense Essence

AIS Ecosense Essence is developed with a modern, low-e coating to help buildings achieve energy efficiency along with environmental benefits.

#### Benefits

- Ensures enhanced thermal insulation
- Allows better visible light transmission

#### Usage

- Exterior façades • Windows

Colours available:

- Clear Essence • Green Essence • Blue Essence



### AIS Ecosense Edge

The Edge series is a solar-control glass with thermal-insulation and Low-e properties which can be used in single-glazing applications.

#### Benefits

- Helps in better energy savings
- Suitable for use in 'green' homes
- Delivers better environmental benefits by providing solar and thermal insulation
- High-performing glass which reduces direct as well as indirect heat

#### Usage

- Exterior façades • Windows

Colours available:

- Clear Series: Edge Natura, Edge Natura Plus
- Blue Series: Edge Electra, Edge Electra Plus
- Green Series: Edge Chroma, Edge Chroma Plus





## Value-Added Glass

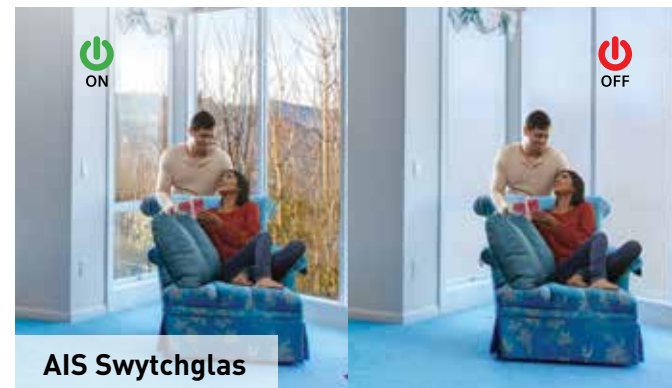
**AIS Securityglas™** – A specially toughened, laminated safety glass that provides greater impact-resistance and strength. It is manufactured with a specialised PVB interlayer between two sheets of glass, and this combination of layers provides a high level of intrusion resistance.

**AIS Securityplus** – Reinforced by a layer of DuPont Sentry Glass™, AIS Securityplus is up to five times stronger than conventional laminated materials. The special interlayer increases the tolerance to greater loads while enabling a design of aesthetically pleasing and complex elements.

**AIS Stronglas™** – A very high-grade tempered glass that is significantly stronger than ordinary glass. It goes through a toughening process, which makes the glass invulnerable to tensile stresses.

**AIS Swytchglas** – The cutting edge in glass technology, which has the power to control transparency, making it the smartest glass around. With AIS Swytchglas, you can make transparent glass translucent, to block visibility, at the click of a button.

**AIS Pyrobel** – Engineered with a special intumescent layer that helps withstand extreme levels of heat, largely restricts heat transfer and prevents easy passage of smoke and flames. In the event of fire, the interlayer expands and transforms itself into a rigid, opaque and heat-absorbing fire shield.



AIS Swytchglas



**AIS Windows** – Doors and windows are the soul of any building. At AIS, you have a multitude of choices within uPVC, wood and aluminium profiles. Along with aesthetic value, there are other features like safety, security, noise cancelling and environment-friendly profiles that are being offered by AIS Windows. Therefore we present a range of solutions that suit your taste and your class.

## Technical Specifications

### AIS Ecosense Enhance – Performance Parameters

Glass Details		Light Factors			Energy Factors		
Product Name	Shade	Transmission %	Reflection		SF %	SC	U-Value W/m²K
			External %	Internal %			

#### Solar Control Glass – 6 mm

Spring	Clear	65	21	24	69	0.79	5.7
Nimbus	Clear	54	21	14	59	0.68	5.4
Aura	Clear	53	25	21	58	0.67	5.7
Nectar	Clear	37	22	16	45	0.52	5.3
Dawn	Clear	29	20	34	43	0.50	5.7
Ivory	Clear	23	34	19	34	0.39	4.9
Snow	Clear	23	26	36	38	0.44	5.7
Marine	Blue	43	11	21	48	0.55	5.7
Serene	Blue	35	12	15	45	0.52	5.4
Bay	Blue	35	12	22	46	0.53	5.7
Oasis	Blue	30	17	26	41	0.47	4.8
Indigo	Blue	24	12	16	38	0.43	5.3
Oceanic Blue Plus	Blue	22	20	29	33	0.38	5
Cove	Blue	20	12	34	36	0.41	5.7
Orchid Blue	Blue	15	14	35	35	0.40	5.7
Bluebell	Blue	14	17	20	32	0.37	4.9
Meadow	Green	56	14	21	48	0.56	5.7
Harmony	Green	46	16	15	46	0.53	5.4
Coral	Green	44	19	22	46	0.53	5.7
Lime	Green	31	17	16	37	0.43	5.7
Pine	Green	25	16	34	35	0.40	5.7
Jade	Green	21	20	35	36	0.41	5.7
Citrus	Green	18	25	21	31	0.36	4.9
Gold	Gold	49	26	27	58	0.67	5.7

#### 6 mm (Solar Control Glass) - 12 mm (Air Gap) - 6 mm (Clear Glass)

Spring	Clear	59	24	26	60	0.70	2.8
Nimbus	Clear	47	23	18	48	0.55	2.8
Aura	Clear	48	27	25	46	0.53	2.8
Nectar	Clear	32	23	21	35	0.39	2.7
Dawn	Clear	26	21	35	33	0.38	2.8
Snow	Clear	21	27	36	28	0.32	2.8
Ivory	Clear	20	34	23	25	0.29	2.6
Marine	Blue	38	12	25	39	0.46	2.8
Serene	Blue	31	11	18	33	0.38	2.8
Bay	Blue	31	13	25	34	0.39	2.8
Oasis	Blue	27	17	29	31	0.36	2.5
Indigo	Blue	22	13	21	26	0.30	2.7
Oceanic Blue Plus	Blue	21	21	29	25	0.30	2.5
Cove	Blue	18	12	34	25	0.29	2.8

All data calculated with LBNL Windows 7.3 software based on NFRC methodology. U-value is calculated according to standard EN 673. Parameter value tolerance in accordance with EN 1096.

## AIS Ecosense Enhance – Performance Parameters

Glass Details		Light Factors			Energy Factors		
Product Name	Shade	Transmission	Reflection		SF	SC	U-Value
			External	Internal			
		%	%	%	%	W/m²K	
Orchid Blue	Blue	13	14	35	23	0.26	2.8
Blue Bell	Blue	13	17	24	21	0.24	2.6
Meadow	Green	49	17	25	39	0.44	2.8
Harmony	Green	40	18	20	34	0.39	2.8
Coral	Green	39	20	25	35	0.40	2.8
Lime	Green	27	18	20	26	0.30	2.7
Pine	Green	22	16	35	24	0.28	2.8
Jade	Green	18	20	35	24	0.28	2.8
Citrus	Green	16	25	24	21	0.24	2.6
Gold	Gold	44	27	29	48	0.56	2.8

## AIS Ecosense Exceed – Performance Parameters

Glass Details		Light Factors			Energy Factors		
Product Name	Shade	Transmission	Reflection		SF	SC	U-Value
			External	Internal			
		%	%	%	%	W/m²K	

### 6 mm Solar Control Low-E Glass – 12 mm Air Gap – 6 mm Clear Essence (Low-E Glass)

Clear Lite Plus	Clear	54	15	11	38	0.44	1.7
Clear Radiance	Clear	48	24	14	35	0.41	1.7
Clear Vision Plus	Clear	39	23	13	29	0.33	1.7
Clear Brook Plus	Clear	33	39	21	22	0.25	1.6
Clear Comfort	Clear	30	25	14	24	0.28	1.7
Clear Priva	Clear	30	31	17	22	0.26	1.7
Clear Platina	Clear	27	40	16	21	0.24	1.7
Blue Lite Plus	Blue	38	10	10	28	0.33	1.7
Electric Blue	Blue	36	23	17	31	0.36	1.8
Blue Radiance	Blue	32	13	14	25	0.28	1.7
Blue Berry	Blue	29	21	20	26	0.30	1.7
Blue Vision Plus	Blue	24	13	13	20	0.23	1.7
Blue Brook Plus	Blue	20	20	23	18	0.21	1.6
Blue Comfort	Blue	20	13	14	19	0.22	1.7
Blue Priva	Blue	20	14	17	18	0.21	1.7
Blue Platina	Blue	18	18	17	17	0.20	1.7
Green Lite Plus	Green	47	14	11	29	0.33	1.7
Green Radiance	Green	42	18	14	27	0.30	1.7
Green Vision Plus	Green	34	19	13	22	0.25	1.7
Green Brook Plus	Green	26	30	23	18	0.21	1.7
Green Comfort	Green	26	18	14	20	0.23	1.7
Green Priva	Green	26	21	17	19	0.22	1.7
Green Platina	Green	24	28	17	18	0.21	1.6
Aurelia	Gold	30	41	46	24	0.28	1.6

All data calculated with LBNL Windows 7.3 software based on NFRC methodology. U-value is calculated according to standard EN 673. Parameter value tolerance in accordance with EN 1096.

## AIS Ecosense Excel – Performance Parameters

Glass Details		Light Factors			Energy Factors		
Product Name	Shade	Transmission	Reflection		SF	SC	U-Value
			External	Internal			
		%	%	%	%	W/m²K	

### 6 mm Double Low-E Glass – 12 mm Air Gap – 6 mm Clear Glass

Clear Vivid	Clear	66	13	13	38	0.43	1.6
Clear Star	Clear	55	12	13	33	0.38	1.6
Clear Sparkle	Clear	46	19	17	25	0.29	1.6
Clear Dazzle	Clear	45	13	13	27	0.31	1.6
Clear Pearl	Clear	41	19	13	23	0.26	1.6
Clear Marvel	Clear	30	19	18	18	0.21	1.6
Blue Vivid	Blue	43	9	13	28	0.32	1.6
Blue Star	Blue	36	6	12	25	0.29	1.6
Blue Sparkle	Blue	31	12	17	20	0.23	1.6
Blue Pearl	Blue	27	12	13	19	0.22	1.6
Blue Marvel	Blue	21	11	18	16	0.19	1.6
Green Vivid	Green	55	11	13	30	0.35	1.6
Green Star	Green	46	9	12	26	0.30	1.6
Green Sparkle	Green	41	17	18	22	0.25	1.6
Green Pearl	Green	34	15	13	20	0.23	1.6
Green Marvel	Green	27	16	18	18	0.21	1.6

## AIS Ecosense Edge – Performance Parameters

Glass Details		Light Factors			Energy Factors		
Product Name	Shade	Transmission	Reflection		SF	SC	U-Value
			External	Internal			
		%	%	%	%	W/m²K	

### AIS Ecosense Edge / Edge Plus (Solar Control & Thermal Insulation Glass) – 6 mm

Natura	Clear	28	27	10	30	0.35	3.7
Natura Plus	Clear	45	20	6	42	0.48	4.6
Electra	Blue	19	14	10	27	0.31	3.7
Electra Plus	Blue	30	12	6	33	0.38	4.6
Chroma	Green	23	21	10	26	0.30	3.7
Chroma Plus	Green	38	19	6	31	0.36	4.6

### AIS Ecosense Edge / Edge Plus – 6 mm (Solar Control & Thermal Insulation Glass) – 12 mm (Air Gap) – 6 mm (Clear Glass)

Natura	Clear	25	28	16	24	0.28	1.9
Natura Plus	Clear	40	22	12	33	0.38	2.4
Electra	Blue	16	15	16	19	0.22	1.9
Electra Plus	Blue	27	12	12	25	0.29	2.4
Chroma	Green	20	21	16	19	0.22	1.9
Chroma Plus	Green	35	12	12	23	0.26	2.4

All data calculated with LBNL Windows 7.3 software based on NFRC methodology. U-value is calculated according to standard EN 673. Parameter value tolerance in accordance with EN 1096.

## AIS Ecosense Essence – Performance Parameters

Glass Details		Light Factors			Energy Factors		
Product Name	Shade	Transmission	Reflection		SF	SC	U-Value
			External	Internal			
		%	%	%	%	W/m <sup>2</sup> K	

### 6 mm Low-E Glass – 12 mm Air Gap – 6 mm Clear Glass

Product Name	Shade	Transmission	External Reflection	Internal Reflection	SF	SC	U-Value
Clear Essence Plus	Clear	71	10	12	53	0.61	1.8
Green Essence Plus	Green	59	9	11	37	0.43	1.8
Blue Essence Plus	Blue	43	7	11	35	0.40	1.8

## AIS Sunshield – Performance Parameters

Glass Details		Light Factors			Energy Factors		
Shade		Transmission	Reflection		SF	SC	U-Value
			External	Internal			
		%	%	%	%	W/m <sup>2</sup> K	

### AIS Sunshield (Single Glazed 3.5 mm)

Shade	Transmission	External Reflection	Internal Reflection	SF	SC	U-Value
Royal Gold	43	24	27	50	0.57	5.80

### AIS Sunshield (Single Glazed 4 mm)

Shade	Transmission	External Reflection	Internal Reflection	SF	SC	U-Value
Royal Gold	41	24	27	52	0.60	5.80

### AIS Sunshield (5 mm)

Shade	Transmission	External Reflection	Internal Reflection	SF	SC	U-Value
Leaf Green	17	38	16	31	0.36	5.67
Oceanic Blue	28	20	29	39	0.45	5.71
Radiant Amber	18	20	15	31	0.36	5.67
Icy Clear	65	22	25	66	0.76	5.75
Royal Gold (Single Glazed)	40	23	26	52	0.60	5.80

### AIS Sunshield – 5 mm (Coated Glass) – 12 mm (Air Gap) – 5 mm (Clear Glass)

Shade	Transmission	External Reflection	Internal Reflection	SF	SC	U-Value
Leaf Green	15	38	21	22	0.26	2.79
Oceanic Blue	25	20	32	29	0.34	2.81
Radiant Amber	16	20	20	22	0.25	2.79
Icy Clear	58	26	28	57	0.65	2.82

### AIS Sunshield (6 mm)

Shade	Transmission	External Reflection	Internal Reflection	SF	SC	U-Value
Supreme Blue	35	17	24	44	0.51	5.69
Supreme Green	33	34	14	43	0.49	5.66
Supreme Gold	58	15	16	67	0.78	5.40

## AIS Opal – Performance Parameters

Glass Details		Light Factors			Energy Factors		
Shade		Transmission	Reflection		SF	SC	U-Value
			External	Internal			
		%	%	%	%	W/m <sup>2</sup> K	

### AIS Opal (4 mm)

Shade	Transmission	External Reflection	Internal Reflection	SF	SC	U-Value
Royal Blue	30	13	36	52	0.60	5.7
Cool Green	48	24	36	50	0.57	5.7
Golden Bronze	40	17	35	58	0.67	5.7
Pearl Grey	20	9	37	50	0.58	5.7
Aqua Blue	29	14	40	49	0.80	5.8

### AIS Opal (5 mm)

Shade	Transmission	External Reflection	Internal Reflection	SF	SC	U-Value
Royal Blue	25	10	36	49	0.56	5.7
Cool Green	44	22	36	47	0.54	5.7
Golden Bronze	35	14	35	55	0.63	5.7
Pearl Grey	15	7	38	46	0.53	5.7
Aqua Blue	25	11	40	44	0.51	5.8



Asahi India Glass Ltd.

Platinum Techno Park, 301, Bhagwan Mahaveer Road  
Sector 30, Vashi, Navi Mumbai – 400 703, Maharashtra  
E-mail: [seemore@aisglass.com](mailto:seemore@aisglass.com)

Tel: (022) 3925 6000 | (033) 4068 1112 / 3 / 4 |  
(080) 2357 1663 / 64 / 65 / 66

[www.aisglass.com](http://www.aisglass.com)

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