

# ACID ETCHED GLASS

for display applications



AGC offers 4 ranges of anti-glare acid etched glass with different gloss levels and textures for display applications:

- LST (Low Sparkling Touch)<sup>1</sup>
- VLST (Very Low Sparkling Touch)<sup>1-2</sup>
- NST (No Sparkling Touch)<sup>1</sup>
- Falcon Satin and Falcon Matte<sup>2</sup>

By working on the structure of the glass, AGC can offer different properties tuned to the specific needs of your final product.

1) LST, VLST and NST are available on Planibel Clear and Planibel Pure Vision.

2) In industrial testing phase, already available for prototyping.

## Acid etched glass

What's so special about it?	ANTI-GLARE TREATMENT*	ANTI-SPARKLING TREATMENT	TOUCH
	<p>Standard glass      LST anti-glare glass</p>	<p>Standard anti-glare glass      NST anti-sparkling glass</p>	<p>NST anti-glare glass</p>
What does this mean for you?	<p>Produced on extra-thin float glass, the aim of the anti-glare treatment is to reduce the negative effect of incident light by diffusing the reflections. It confers anti-glare performance while offering optimal contrast and true colour rendering with controlled haze. AGC's very specific horizontal acid etching process guarantees better homogeneity of anti-glare products, even in large dimensions.</p>	<p>Anti-sparkling acid-etched glass reduces the sparkling effect that you see when using standard anti-glare glass. With our non-sparkling solution (NST), it can be completely eliminated and used for display applications up to very high resolution (&gt;300 dpi).</p>	<p>Depending on the selected product, the touch feel will lead to a different experience when touching the glass with a pen or with the finger. The level of scratch resistance and cleanability will be adapted accordingly.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>LST Cotton-like feel</p> </div> <div style="text-align: center;"> <p>VLST Soft feel</p> </div> <div style="text-align: center;"> <p>NST and Falcon Paper-like feel</p> </div> </div>

\* The anti-glare treatment can be applied on both sides of the glass.

What can you use it for? | Be inspired...

- Display – PCs, laptops, tablets, e-readers, smartphones, digital signage, interactive flat panel displays, interactive white boards, touch screens, etc.
- Transportation – Trains, aeronautics, automotive interiors, etc.
- Picture framing

Products	LST Low Sparkling Touch	VLST Very Low Sparkling Touch	NST No Sparkling Touch	Falcon Matte	Falcon Satin
Anti-sparkling	+	++	+++	++	+++
Diffusion	+++	++	+	++	+
Gloss 60° (G.U.)	From 40 to 110	40	From 40 to 110	25	110
Clarity (%)	30 - 90	50	> 95	70	>95
Rsm (µm)	50	25	15	25	20
Ra (µm)	0.1 - 0.5	0.15	0.03 - 0.09	0.13	0.04

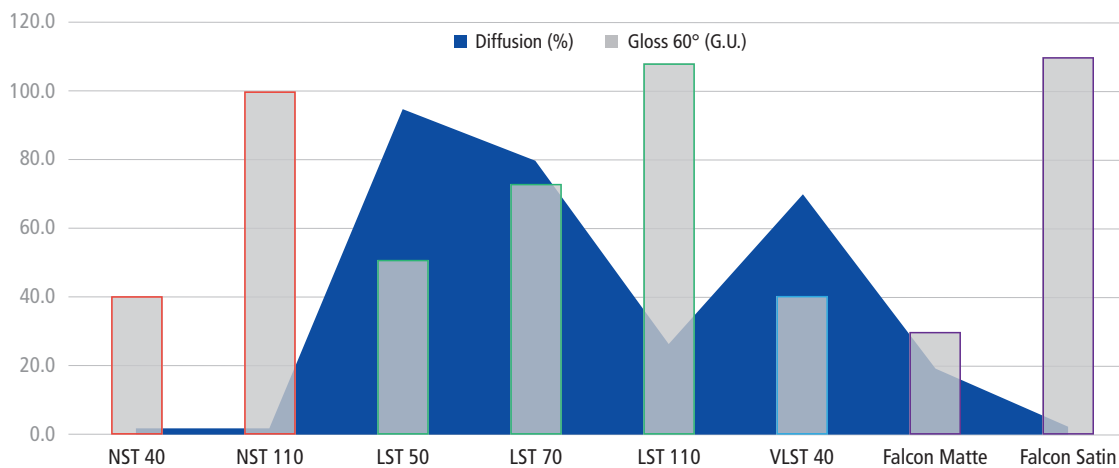
## Performance

Product name		Gloss (G.U. at 60°)	Haze (%)	Clarity (%)	Ra (µm)*	Rsm (µm)**
<b>LST</b>	LST 40	40	20	33	0.38	50
	LST 50	50	11	44	0.30	
	LST 60	60	8	52	0.23	
	LST 70	70	5	63	0.21	
	LST 80	80	4	69	0.17	
	LST 90	90	3.5	76	0.13	
	LST 100	100	2.5	77	0.11	
	LST 110	110	2	84	0.11	
<b>VLST</b>	VLST 40	40	15	52	0.15	25
<b>NST</b>	NST 40	40	30	> 95	0.05	15
	NST 50	50	18	> 95	0.09	
	NST 70	70	14	> 95	0.05	
	NST 100	100	8	> 95	0.03	
	NST 110	110	11	> 95	0.03	
<b>Falcon</b>	Falcon Matte	25	32	70	0.13	20 - 30
	Falcon Satin	110	6.5	> 95	0.04	

\* Standard deviation: 0.03 µm (LST >90 and VLST), 0.05 µm (LST <90 and NST and Falcon)

\*\* Standard deviation: 10 µm for LST/VLST and 5 µm for NST/Falcon

## Diffusion vs gloss



**LOWER GLOSS**  
**= STRONGER DIFFUSION OF THE LIGHT REFLECTION**  
**= STRONGER ANTI-GLARE EFFECT**

## Processing options

- Cutting (including laser cutting)
- Grinding
- Drilling
- Printing
- Thermal and chemical tempering (against breakage)
- Single or double acid etching
- Safe foil application
- UV gluing
- Wet coating application

## Availability

All products are available in the minimum size of 1.0 x 1.5 m and in the maximum size of 1.60 x 3.21 m and in thickness from 0.4 mm up to 5 mm.

*The information contained in this data sheet is intended to assist you in designing with AGC materials. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose. The user is responsible for determining the suitability of AGC materials for each application.*

## AGC GLASS EUROPE, A LEADER IN FLAT GLASS

Based in Louvain-la-Neuve (Belgium), AGC Glass Europe produces, processes and markets flat glass for the construction industry (external glazing and interior decoration), car manufacture and solar power applications. It is the European branch of AGC, the world's leading producer of flat glass. It has over 100 sites throughout Europe, from Spain to Russia. AGC Glass Europe has representatives worldwide - See [www.agc-yourglass.com](http://www.agc-yourglass.com) for further addresses.

AGC Glass Europe – Avenue Jean Monnet 4, 1348 Louvain-la-Neuve, Belgium - T +32 2 409 30 00 - [IndustrialGlass@eu.agc.com](mailto:IndustrialGlass@eu.agc.com)

