

NEOXUM

Datasheet AGS and AS screen protectors

Professional surface and display protection foils. Suitable for almost any purpose.

	AGS	AS
Material thickness	130 µm ± 10	130 µm ± 10
Anti-glare surface treatment (glare reduction up to 90%)	●	○
Highly transparent surface w/o anti-glare treatment	○	●
Reliable and robust polymer sandwich-system (PET)	●	●
Superior chemical resistance ¹	●	●
Alcohol resistant (disinfectants) ¹	●	●
Grease and oil resistant ¹	●	●
Transparency (transmission), 400 - 800 nm	> 92%	> 92%
High thermal resistance (-35 °C up to +110 °C)	●	●
Surface hardness ²	> 3H	> 3H
Anti-dust and anti-grease surface treatment (efficient reduction of fingerprints)	●	○
Self-adhesive and removable without residue	●	●
Easy application onto displays without tools	●	●
High adhesion on glass, many polymer surfaces, e.g. displays and on blank polished metals or glass	●	●
Offers smooth handwriting on touchscreens	●	●
RoHS und REACH certified	●	●

¹ approved with diluted acids and bases and many solvents, e.g. disinfectants. Test results can be obtained separately.

² pencil hardness

- available
- not available

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Datasheet AGS-FR and AS-FR screen and surface protectors

Special surface and display protection with superior frost resistance. Perfect for low temperature applications.

	AGS-FR	AS-FR
Material thickness	130 µm ± 10	130 µm ± 10
Anti-glare surface treatment (glare reduction up to 90%)	●	○
Highly transparent surface w/o anti-glare treatment	○	●
Anti-Frost effect (reduction of white frost film at temperature gradient from low temperature (below 0 °C) to temperature higher than 0 °C)	●	●
Reliable and robust polymer sandwich-system (PET)	●	●
Superior chemical resistance ¹	●	●
Alcohol resistant (disinfectants) ¹	●	●
Grease and oil resistant ¹	●	●
Transparency (transmission), 400 - 800 nm	> 90%	> 91%
High thermal resistance (-35 °C up to +110 °C)	●	●
Surface hardness ²	> 3H	> 3H
Anti-dust and anti-grease surface treatment (efficient reduction of fingerprints)	●	○
Self-adhesive and removable without residue	●	●
Easy application onto displays without tools	●	●
High adhesion on glass, many polymer surfaces, e.g. displays and on blank polished metals or glass	●	●
Offers smooth handwriting on touchscreens	●	●
RoHS and REACH certified	●	●

¹ approved with diluted acids and bases and many solvents, e.g. disinfectants. Test results can be obtained separately.

² pencil hardness

- available
- not available

Datasheet AS-S und AS-G screen protectors

Transparent screen protectors with embedded metallic shiny silver and golden particles

	AS-S	AS-G
Material thickness	110 µm ± 10	110 µm ± 10
Embedded shiny metallic effect at optical grade	●	●
Embedded silver nano-particle ¹	●	○
Embedded gold nano-particle ¹	○	●
Reliable and robust polymer sandwich-system (PET)	●	●
Superior chemical resistance ²	●	●
Alcohol resistant (disinfectants) ²	●	●
Grease and oil resistant ²	●	●
Transparency (transmission), 400 - 800 nm	> 87%	> 84%
High thermal resistance (-18 °C up to +105 °C)	●	●
Surface hardness ³	> 3H	> 3H
Anti-dust and anti-grease surface treatment (efficient reduction of fingerprints)	●	○
Self-adhesive and removable without residue	●	●
Easy application onto displays without tools	●	●
High adhesion on glass, many polymer surfaces, e.g. displays and on blank polished metals	●	●
Offers smooth handwriting on touchscreens	●	●
RoHS and REACH certified	●	●

¹ Glitter effect based on ceramic particles with optical shiny metallic properties



² approved with diluted acids and bases and many solvents, e.g. disinfectants. Test results can be obtained separately.

³ pencil hardness (700g@45°)

- available
- not available

Further information **NEOXUM** protection foils

Model AGS

Neoxum Anti-Glare Anti-Scratch (AGS) foils are ubiquitously custom-made suitable display and surface high resistant protective layers. Due to a special surface treatment annoying light reflections (anti-glare effect) on the surface are additionally considerably reduced.

Typical applications:

Efficient reduction of light reflections on modern displays (tablet PCs, smart phones, touch-screens, and many more) combined with a professional protection of those sensitive surfaces creates instantly rugged electronic devices. Additionally, AGS screen and surface protective foils offer superior chemical and thermal resistance and are easily applied and removed without residue.

Model AS

Neoxum Anti-Scratch (AS) foils are display and surface high resistant protective layers with a perfect fit. Without the anti-glare surface treatment, the AS protectors offers a brilliant color fidelity.

Typical applications:

Professional mechanical protection of sensitive surfaces, like displays surfaces. Furthermore, AS protective foils offer superior chemical and thermal resistance. Neoxum anti-scratch AS foils are typically applied on mobile ans smart phones, digital cameras, industry panels, touch screens and many more devices. Neoxum AS foils are a strong reliable invisible shield and protects your value.

Model AGS-FR

Intended to reduce frost condensation on cold surfaces, the AGS-FR model offers the same superior properties as the anti-glare AGS foils plus a special anti-frost coating. This additional layer efficiently reduces white-frost on cold surfaces, e.g. display panels, when they enter temperature areas above zero degrees.

Typical applications:

For example, in deep-frozen food industry the AGS-FR protectors help to minimize failure of machine data collection handhelds in rough logistic environments. Condensation frost on frozen surfaces is significantly reduced and can be easily wiped.

Model AS-FR

The highly transparent pendant to the anti-glare-anti-frost version is the AS-FR protective foil. This model shows the same anti-frost option while offering brilliant transparency and rich colors. The AS-FR foil in comparison is not anti-glare treated, but reveals identical high chemical and mechanical robust protection of sensitive displays.

Typical applications:

In harsh environmental conditions, like low temperature applications, the transparent anti-frost protective foil reduces white-frost layers when the electronic device is brought from minus temperature climate into an environment above zero degrees.

Model AS-S

Developed as fancy eye-catcher protective foils the AS-S protectors offer a shiny metallic surface. The silver colored glitter effect is related to nano-sized metallic particles embedded in the polymer structure.

Typical applications:

Beside perfect mechanical protection preventing scratches, the AS-S foil features silvery visual appearance due to metallic embedded particles creating a fancy look distinguishing that certain something. The AS-S protective layer converts a draggy display into an eye-catcher without reducing clearness of display.

Model AS-G

Another fancy model, the gold particle enriched AG-G foil is also based on the highly transparent AS product. Nano-sized metallic gold particles embedded in the polymeric structure generate a golden shimmer on the display.

Typical applications:

Analogous to the silver particle type, the AS-G golden particle protective foil offers a golden glitter effect creating an unique appearance in contrast to standard display surfaces. Hence, clearness of display is not limited whereas the "look" of the devices is dramatically increases by the golden shiny effect particles.



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