

TO SAY IT'S TOUGH ISN'T EVEN SCRATCHING THE SURFACE.

Brigadier™ is built for durability with Kyocera's proprietary Sapphire Shield display. Second only to diamonds in mineral hardness, sapphire is virtually scratchproof and provides outstanding protection against impact damage.

SAPPHIRE SHIELD DISPLAY



BRIGADIER™



SAPPHIRE SHIELD

Brigadier™ is built for durability with Kyocera's proprietary Sapphire Shield display. Second only to diamonds in mineral hardness, sapphire is virtually scratchproof and provides outstanding protection against frontal impact damage. It also delivers exceptional protection from damaging real world scenarios, ranging from keys in a pocket to a face-first drop onto rocks, where independent lab tests show it to be far less likely to break than leading strengthened touch-panel glass.

Because sapphire is much harder than tempered glass, it is less susceptible to scratches. Most glass touchscreens are weakened over time by an accumulation of small scratches and fractures, which eventually contribute to them breaking or shattering when dropped. Sapphire's natural resistance to this ongoing, minor damage helps to protect against more significant damage and enhances the long-term integrity of the display.

KYOCERA SAPPHIRE

Kyocera's Sapphire Shield technology is the culmination of the company's 41 years of experience in growing man-made sapphire crystals and other gemstones. Kyocera employs a unique manufacturing process that dependably yields high-quality sapphire for many products, ranging from electronic substrates to LED lighting to high-end wristwatches. Kyocera's mobile phone business leverages the company's extensive experience and end-to-end ownership of the sapphire manufacturing process to ensure both the stability of supply and strong, ongoing quality assurance.

FAQ'S

What makes Sapphire so strong?

Sapphire is strong because nature made it that way! According to the Mohs scale of mineral hardness, sapphire is the second hardest mineral in the world, trailing only solid diamonds. While diamonds are very rare and extremely difficult to manufacture, Kyocera has spent 41 years perfecting the process of manufacturing man-made sapphire that not only is durable, but also is affordable enough for cell phone displays. The "hardness" of the crystalline structure of sapphire makes it virtually scratchproof and third-party lab tests show it to be much less likely to break than typical strengthened-glass displays when dropped on rocks.

What if I drop my phone? Will the Sapphire Shield break?

While no display of any material is "break proof," phones with Sapphire Shield displays have been shown to be far less likely to break when dropped. Along with these catastrophic breakage situations, Sapphire Shield also is much less prone than strengthened glass to ongoing abrasions, scratches and micro-fractures that, over time, make a display much more susceptible to breaking.

Does having the Sapphire Shield mean I do not have to buy a screen protector?

As one of the world's hardest minerals, sapphire is virtually impervious to scratching. In most cases, this would eliminate the need for any kind of supplemental display protection. Users are certainly welcome to use screen protectors, but they can be virtually assured that the cover doesn't have the tested durability of the display it's covering.

SAPPHIRE

SHIELD
by  KYOCERA