



Screen protectors vary in hardness. You may have seen the hardness rating on different packaging. Nonetheless, if you don't know what this label means, then you're probably asking yourself, "What is 9h hardness?"

BREAKING DOWN TEMPERED SCREEN PROTECTOR HARDNESS WHAT IS 9H HARDNESS?

Many people use the tempered glass today without knowing what 9h hardness is. 9h refers to the Moh scale of mineral hardness. Friedrich Mohs invented this scale in 1812, and it ranges from 1 to 10 with glass around 5 and diamond at the top of the scale.

The scale is represented by numbers only without the "H" suffix. The suffix means the hardness of a pencil. To find a rating, you use the pencil test, which compares the relative hardness of a screen. When a manufacturer claims that their screen is 9h, it means the screen can resist scratches from the hardest pencil.

Of course, it makes no sense comparing a glass material with a pencil. Hence, we analyze the hardness based on the scratch the hardest pencil has on the screen. From soft to hard pencil, pencil hardness ranges from 9b to 9h. Testing various displays, we use pencils that have a lead hardness ranging from 6b to 9h, pressed against the surface at a 45-degree angle. The codes are given based on the hardest pencil that fails to scratch the surface. The table below shows Moh hardness scale.

<u>MINERAL</u>	<u>HARDNESS</u>
Talc	1
Gypsum	2
Calcite	3
Fluorite	4
Apatite (glass falls into this category)	5
Orthoclase feldspar	6
Quartz	7
Topaz	8
Corundum	9
Diamond	10

Smartphones usually come with screens that are around 5 to 6 on Moh's scale so that objects like knives, coins, and keys can't scratch them. This is because they're made of iron, copper, and steel, which cannot scratch glass screen protectors of 6.5.

Fast Facts: Do I need screen protection if my phone is built with Gorilla glass? **YES.** It will still get scratched otherwise. You may ask why then does Gorilla glass above Moh's 6 get scratched? The primary reason is sand, which has Moh's hardness of 6 to 7.

CONCLUSION

The hardness of different types of screen protectors can prevent or leave a scratch mark. The 9h hardness screen protector will protect the screen of your phone from damage and allow very minimal to zero scratches to the screen protector.