

Tanks also have silencers, but that's very strange

Silencers for guns have probably become familiar to many people through action movies. But did you know that tanks also have silencers, and that is the largest silencer in the world!

More than 100 years ago, the silencer was born and since then it has played an extremely important role in the world of weapons. The US military even requires soldiers to be equipped with weapons with built-in silencers.

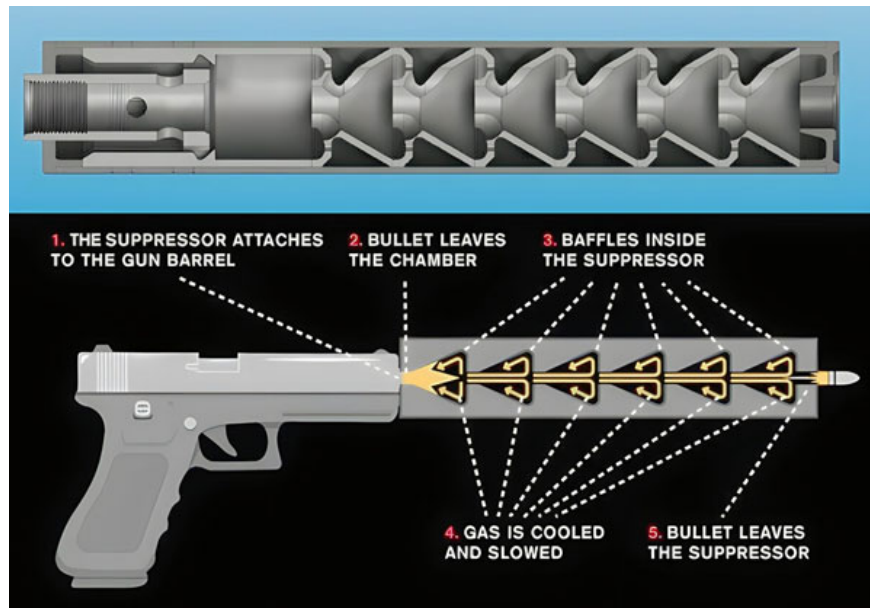
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In the photo is a silencer mounted on a German M109 self-propelled gun. It is known that this is the way the German military used to limit the impact of noise when firing artillery during a test on the field of the Weapons and Ammunition Technical Center in the Bundeswehr city of Meppen.

It is described as a tank silencer (roughly translated: silencer for tanks), manufactured by weapons company Rheinmetal and acoustic engineering laboratory IfL. Tank silencers are built primarily for use at weapons testing facilities to reduce noise levels when tanks fire.

This silencer has a pretty funny shape. It can reduce the sound of a tank shot from 115 dB to 100 dB (when measured at a distance of 250 meters), helping to ensure sound safety for the experimental area, and avoid causing noise pollution for people. live around.



Basically, the operating mechanism of the cannon on tanks is similar to that of guns. When fired, the gunpowder inside the bullet will be heated, creating great pressure to push the bullet out of the barrel along with the air flow. At that time, this air flow suddenly expands, creating a loud explosion.

Silencers (attached to guns), and silencers for tanks will have small chambers inside to divide the airflow into many parts. This causes them to gradually reduce pressure as they pass through the chambers, before escaping to the outside, thereby reducing the pressure and energy of the gas flow. Therefore, their expansion is no longer too much and too fast, so the noise of the explosion is also much reduced.

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