

straightJacket™ SUPPRESSOR COVER

Patent Pending

The inception of the straightJacket design came from the owner's personal need for an absolute flame-resistant suppressor cover that would not fail during the performance of his required duties and training as a SWAT Operator and Sniper. When no viable product existed he set out to develop the solution that would not melt, catch on fire, or decompose during rates of full auto fire. The straightJacket is made to order in the USA and provides a perfect custom fit for the individual customer's suppressor. Liberty's Defense is a USMC Sevice Diasabled Vet, LEO, and Woman Owned Small Business.

Designed for the Most Austere Conditions

The straightJacket utilizes four separate layers of absolute flame proof high temperature fabrics which are stitched together with stainless-steel thread to ensure the integrity of the cover's absolute heat resistance. The adjustable retention system consists of a marine grade stainless-steel cable which is coiled with constricting pressure across the full length of the suppressor and is overlapped on the barrel end of the suppressor. The cable is locked into a marine grade stainless steel snap shackle that is attached to Mil-Spec Kevlar webbing and a steel slide that allows tension adjustments. The simplicity of the cable and snap shackle design affords the shooter ease in the ability to install or remove the straightJacket in only a few seconds.

Burn Prevention

Unlike a rifle's barrel, suppressors are made of thin metals and their sole purpose is to slow and cool the weapon's rapidly expanding gases prior to their violent introduction into the atmosphere. This results in a highly rapid and extreme temperature rise to the exposed surfaces of the suppressor.

In testing, 20 rounds fired from a short barreled 5.56 rifle caused the suppressor's surface temperature to rise to approximately 350°F. 90 rounds caused the suppressor's surface temperature to rise to 840°F+.

Mirage and Thermal Signature Attenuation

The rise of the suppressor's extreme radiant heat causes the optical phenomenon known as "mirage." Suppressor mirage causes severe distortion of the shooter's sight picture and consequently causes significant point of aim point of impact innaccuracy. The severity of the mirage is exponetially worsened when using magnified optics.

The infrared radiation from heated suppressors is highly visible when viewed through both infrared and thermal imaging devices. This can directly impede and ultimately compromise the success of a mission. The operator's sight picture can be greatly dimenished when utilizing either inrared or thermal imaging with a heated suppressor.

The superior insulating properties of the straightJacket provides the greatest thermal attenuation of a suppressor's radiant energy.

SPECS

THERMAL RATING
DIAMETERS
LENGTHS
MATERIALS

3,000°F SHORT EXCURSIONS
2,000°F DIRECT and CONTINUOUS CONTACT with Suppressor

1.2" to AS NEEDED
4" to AS NEEDED

Amorphous Silica, Basalt, Aluminzed Silica, Kevlar,
Stainless Steel Thread

RETENTION WEIGHT
EXAMPLES

Marine Grade Stainless Steel Snap Shackle and Cable
Thermal Defense Solutions Bantam 4.9oz
Surefire SOCOM556-RC/RC2 6.1oz
Torrent Suppressors T3/T2 6.7oz
SilencerCo Omega 300 6.9oz
Dead Air Armament Nomad 30 7.7oz
Knights Armament Co M110SASS 10.7oz



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