

3D PRINTED TITANIUM - A-TEC TITAN 45

Light enough to forget. Strong enough to trust.

ULTRALIGHT: 235 G

MAGNUM RATED

32 DB(C)+ NOISE REDUCTION

.224 TO .375 CALIBRE

3D PRINTED TITANIUM

CERAKOTED SURFACE

A-TEC 
SCIENCE OF SILENCE



The A-TEC Titan 45 redefines what a hunting suppressor can be. 3D printed in aerospace-grade Titanium Grade 5, it delivers a remarkable strength-to-weight ratio at just 235 grams — without compromising on performance. Magnum rated for bolt-action rifles across a wide calibre range, the Titan 45 is built for hunters who demand reliability in the field without the extra weight on the carry. The new 2-cylindrical spigot thread adapter is dealer-fitted using a standard 10 mm Allen key, ensuring a precise and secure mount every time.



Product	Effect (dbC)	Measured caliber	Added length (mm)	Total length (mm)
A-TEC Titan 45	32	.308 Winchester	143.5	194.5



READ BEFORE USE

Safety and Usage Disclaimer – Titanium Suppressors

This document contains critical safety information that may affect your legal rights and responsibilities. Failure to read and follow the instructions and warnings may result in serious injury, damage to your firearm and silencer, or harm to objects and people in the vicinity.

Liability Disclaimer

A-TEC is not liable for any damage, injury, or legal issues arising from improper use of this product. The user is solely responsible for following all safety procedures, applicable laws, and best practices outlined in this document. This document and other related materials may be updated at A-TEC's sole discretion. By using our products, you confirm that you have read, understood, and agreed to these terms.

Installation & Use

The initial fitting of an A-TEC silencer must always be performed by a qualified gunsmith, even if the rifle has a factory-made muzzle thread. The Titan 45 uses a new 2-cylindrical spigot thread insert system — installation requires a 10 mm Allen key and must be carried out by an authorized dealer or gunsmith. Proper threading and alignment are critical for performance and safety. Ensure that the threads and shoulder of the barrel are smooth and allow the silencer to be screwed on freely, but without excessive slack. A-TEC silencers are designed with

minimal clearance between the projectile and the inner diameter to maximize suppression efficiency. The silencer must be perfectly concentric with the barrel axis. Incorrect fitting can cause damage that is not covered by the manufacturer's warranty.

Before use:

- Ensure you are using a silencer designed for your caliber (.224–.375 cal).
- Although the Titan 45 is magnum rated for bolt-action rifles, verify that your specific caliber is approved. Check our website or contact us if unsure.
- Inspect the silencer for damage, cracks, or foreign objects before every use.
- Confirm that the silencer is securely attached to the barrel.

Use of Reloaded Ammunition

Reloaded cartridges should be used with caution. Do not exceed standard load pressures — overloaded cartridges can cause firearm and silencer damage. A weakened or defective cartridge may fail, posing a risk of injury or equipment damage.

Heat Warning — Titanium-Specific

Titanium has very low thermal conductivity and retains heat

Dia	Weight (gram)	Available calibres	Mounting	Material	Surface treatment
45	235	.224 .264 (6,5) .30 .338 .375	2-cylindrical spigot thread adapter*	Titanium Grade 5	Cerakote

**) Thread installation must be performed by a qualified gunsmith or equivalent.*



READ BEFORE USE

significantly longer than aluminum or steel. The external surface of the suppressor can reach temperatures that cause serious burns — even if the suppressor does not appear visually hot.

- Always use heat-resistant gloves or a barrel cloth when handling the suppressor after firing.
- Never touch the suppressor with bare skin immediately after use.
- Never fire more than 10 consecutive rounds without allowing the suppressor to cool adequately.
- After shooting, detach the silencer and allow it to cool completely in open air before placing it in a bag or case.
- Inspect the attachment after every shooting session to ensure it remains secure.

Service Life & 3D-Printed Structure

The Titan 45 is manufactured using 3D printing (additive manufacturing) in Titanium Grade 5 (Ti-6Al-4V). This process provides an excellent strength-to-weight ratio, but users must be aware of the following:

- The minimum service life is 10,000 rounds under normal use with approved calibers and loads. Extended life span has not yet been fully tested.
- Never use the suppressor beyond observable signs of wear, deformation, impact damage, or unusual sounds during firing.
- Any visible cracks, dents, or structural damage must be assessed by A-TEC or an authorized gunsmith before further use.
- Do not drop or subject the silencer to hard impacts — titanium's oxide passivation layer can be compromised by mechanical damage, increasing the risk of corrosion.

Maintenance & Storage

Proper maintenance is essential for safety and longevity. Titanium is highly resistant to corrosion, but incorrect cleaning products can damage the protective oxide layer and the

Cerakote surface finish, leading to pitting and premature wear. Approved cleaning agents only:

- Use neutral-pH, non-chlorinated, and non-ammoniated cleaning solutions.
- Suitable products include mild aqueous cleaners or products specifically formulated for titanium firearms components.
- Do NOT use:
 - Acidic cleaners or solvents
 - Brake cleaner or chlorine-based products
 - Ammonia-based solutions
 - Abrasive materials or steel brushes

After every use:

- Remove the silencer before transporting or storing your rifle. Never store the rifle with the silencer attached.
- Allow the silencer to cool and dry completely in a warm, ventilated area.
- Apply a light layer of appropriate oil or grease to the threads only. Do not spray oil inside the baffle stack.
- Keep threads clean and lightly lubricated.

Why Is This Important?

Shooting creates condensation, carbon deposits, and combustion byproducts inside the silencer. These byproducts — including ammonia compounds — can damage titanium if left untreated. Storing a rifle with the silencer attached increases the risk of corrosion inside the barrel and at the thread interface.

By using this product, you acknowledge that you are responsible for safe and lawful usage, and for complying with all relevant laws and regulations. If you have any questions regarding fitment, approved calibers, or maintenance, please contact A-TEC for guidance.