

# THE GUIDE TO **TITANIUM** FOR TACTICAL APPLICATIONS



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# WE KNOW TITANIUM FOR TACTICAL APPLICATIONS.

Our combination of industry-specific knowledge, commitment and inventory allows us to consistently supply the titanium needed to keep our customers' production moving forward. There are many benefits to incorporating titanium into your firearms and knives production, including corrosion resistance, weight reduction, and an optimized strength-to-weight ratio. Titanium for tactical applications provides a light-weight solution that dramatically increases performance, durability, and accuracy. Our team of experts can help guide you through the best options for your business.

# COMMON APPLICATIONS

## SUPPRESSORS & MUZZLE BRAKES

### **Titanium Used:**

- Grade 2 & Grade 5 used for the tube and internals
- Grade 2 & Grade 9 tube and pipe used for the cylinder

### **Benefits:**

- Light-weight and ultra-corrosion resistant
- Keeps the end of barrel weight down



## FIRING PINS

### **Titanium Used:**

- Grade 5 Titanium

### **Benefits:**

- Lighter weight accelerates faster
- Ultra-corrosion resistant, no coating needed



# COMMON APPLICATIONS

## TACTICAL MOUNTS

### **Titanium Used:**

- Grade 5 often used for scope mounts and picatinny rails of the gun or the barrel

### **Benefits:**

- Light-weight for ease of use
- Corrosion resistant & strong



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## CUSTOM KNIVES

### **Titanium Used:**

- Grade 5 used for liners, clips, blades, pins, fasteners and locks

### **Benefits:**

- When used in handles and locking mechanisms, creates solid base for the blades, without adding unnecessary weight







“The corrosion resistance that titanium offers can’t be matched by using steel or aluminum. It also cools faster and has a higher melting temperature than aluminum. Because of this, and advances in metalworking techniques, titanium has become a widespread material in the manufacturing of firearms and knives.” - ***TMS Titanium President Todd Harrison***

# CASE STUDY:

# TITANIUM SUPPRESSORS



## ***THE COMPANY: TACTICAL SOLUTIONS***

Tactical Solutions builds lightweight and aesthetically pleasing firearms that are both visually and physically enjoyable to shoot. By constructing rifles and pistols with colorful and lightweight designs, they appeal to a wide range of customers.

## ***THE CHALLENGE:***

Firearm users shooting with a suppressor were experiencing suppressor performance failure caused by excessive heat, corrosion, lack of material strength and excessive weight.

## ***THE SOLUTION:***

Shooters needed a lightweight, durable suppressor to improve overall performance and accuracy. Our customer's suppressor utilizes titanium baffles and body, providing a light-weight solution that dramatically increases suppressor performance, durability, and accuracy.



# CASE STUDY:

# CUSTOM KNIFE MAKER

## ***THE COMPANY***

Our customer is a San Diego-based custom knife-making company that builds completely hand-crafted knives with materials sourced in the US, including titanium from TMS Titanium. They use the best materials available to create the ultimate tools, made for heavy use under extreme conditions and guaranteed for life.

## ***THE CHALLENGE:***

These custom knife-makers were looking for a new material to use that would provide more strength than plastic, but lighter in weight than steel.

## ***THE SOLUTION:***

After experimenting with several materials, they decided to utilize titanium in the knives' handles and locking mechanisms. This created a solid base for the blades, without adding unnecessary weight to the overall product. TMS has since been able to reliably provide the quality and quantity of titanium needed, all at a consistent price so that the shop can plan production accordingly.







# **FIREARMS & KNIVES MANUFACTURERS:**

**Contact us today for special pricing and offers!**

At TMS Titanium, we ensure the highest quality titanium products while also offering first-rate customer service, fast turn-around and no minimum order – all at a reasonable price. With our experience and knowledge in the metals industry, you can be confident in making TMS Titanium your first choice.

**Let's talk titanium for your business today.**

**888-748-8510 | [sales@tmstitanium.com](mailto:sales@tmstitanium.com)**

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