

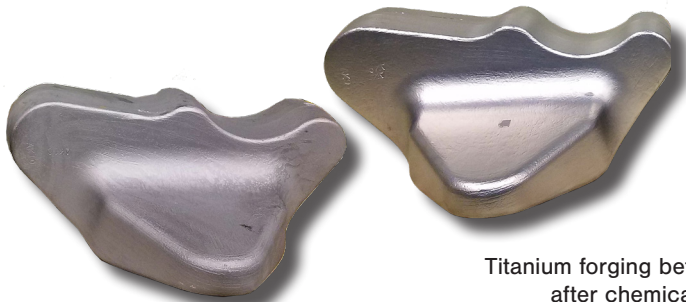


Tech Met, Inc.  
15 Allegheny Square  
Glassport, PA 15045  
412-678-8277  
www.techmetinc.com

## Controlled Chemical Surface Milling - Titanium recast removal

Titanium and its alloys are commonly used in aerospace and medical applications because of its high strength to weight ratio, excellent fatigue properties, good corrosion resistance and excellent biocompatibility.

However the high melting point and high reactivity of titanium and its alloys lead to the formation of the alpha-case layer. The alpha-case is more prone to cracking and therefore must be removed so that quality aerospace standards are met.



Titanium forging before and  
after chemical milling

Tech Met's chemical milling process removes this brittle alpha case layer completely and insures no contamination will remain on the parts.

Chemical milling has been proven effective for the removal of EDM recast layers, carburization layers and oxidation layers on a variety of alloys including alpha-case removal on titanium. Tech Met offers controlled chemical surface milling for titanium forgings in as few as 2 days\*

Our Chemical Milling process is in accordance with SAE ARP1311 and SAE ARP1755B compliant to Aerospace specifications.

**\*Lead Times:**

2 days – Expedite Service Available  
3-5 days – Standard Lead time

**Dimensions:**

Tumbled parts (uniform removal) up to:  
10" X 10" X 38"  
Larger parts – call for consult

GET A QUOTATION  
[sales@techmetinc.com](mailto:sales@techmetinc.com)  
412-678-8277

Please provide the following information for quoting:

- Part Dimension
- Number or weight of Parts
- Finished Part Specifications
- Amount of material/thickness removed
- Tolerance

Whether you have a few parts or a few thousand parts, Tech Met can consistently and reliably provide the precise recast removal you require.



Tech Met is an 100% Employee Owned Company

