



Designation: B600 – 22

# Standard Guide for Descaling and Cleaning Titanium and Titanium Alloy Surfaces<sup>1</sup>

This standard is issued under the fixed designation B600; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last approval. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or approval.

This standard has been approved for use by agencies of the U.S. Department of Defense.

## 1. Scope

1.1 This guide covers a cleaning and descaling procedure useful to producers, users, and fabricators of titanium and titanium alloys for the removal of ordinary shop soils, oxides, and scales resulting from heat treatment operations and foreign substances present as surface contaminants.

1.2 It is not intended that these procedures be mandatory for removal of any of the indicated soils but rather serve as a guide when titanium and titanium alloys are being processed in the wrought, cast, or fabricated form.

1.3 It is the intent that these soils be removed prior to chemical milling, joining, plating, fabrication, and in any situation where foreign substances interfere with the corrosion resistance, stability, and quality of the finished product.

1.4 Acid etching may be required following cleaning when the surface has an oxygen-contaminated layer or alpha case present.

1.5 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.6 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.7 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

<sup>1</sup> This guide is under the jurisdiction of ASTM Committee B10 on Reactive and Refractory Metals and Alloys and is the direct responsibility of Subcommittee B10.01 on Titanium.

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## 2. Processing Soil Removal

2.1 It is recommended that grease, oil, and lubricants employed in machining, forming, and fabricating operations on titanium and titanium alloys be removed by alkaline or emulsion soak-type cleaners and electrolytic alkaline cleaning systems. In the electrolytic system the work may be either anodic or cathodic polarity. Removal of these soils is recommended prior to heat treatment or application of acid treatment designated in 4.2. When electrolytic systems are employed, the voltage should be controlled to prevent the occurrence of spark discharge and subsequent pitting.

## 3. Blast Cleaning

3.1 Mechanical descaling methods such as sandblasting, shot blasting, and vapor blasting may be used to remove hot work scales and lubricants from titanium surfaces if followed by thorough conditioning and cleaning as described in Section 4.

3.2 The sand used for blasting should be a high-grade, washed, iron-free, silica sand or other ceramic media. If carbon or low-alloy steel products are sandblasted in the same facility, the sand used for cleaning these products should not be used on titanium surfaces and a separate sand supply should be provided.

3.3 Roughening of exposed surface areas may occur from grit or shot if cleaning of the entire surface is accomplished by blasting. Partial cleaning for preserving the surface finish is to be preferred in conjunction with proper pickling procedures.

3.4 Blast cleaning that utilizes steel grit, steel shot, or sand containing appreciable amounts of iron should be followed by acid pickling to remove any embedded steel particles on the surface of the titanium.

3.5 Any abrasive or shot blast cleaning may induce residual compressive stresses in the surface of the material or titanium structure. Warpage may occur in thinner sections that are subsequently chemical milled or contour machined.

3.6 In most cases, blast cleaning is not intended to eliminate pickling procedures completely. Abrasives will not remove surface layers contaminated with interstitial elements such as

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