

BAC5753

REVISION
Y
1/27/2020

CLEANING, DESCALING AND
SURFACE PREPARATION OF
TITANIUM AND TITANIUM ALLOYS



THIS SPECIFICATION ESTABLISHES THE REQUIREMENTS FOR CLEANING, DESCALING, ETCHING, AND SURFACE PREPARATION DURING THE PROCESSING OF TITANIUM AND TITANIUM ALLOYS.

<u>BAC 5753 DEPARTURES</u>	<u>EFF DATE</u>	<u>SUBCONTRACTOR(S) AFFECTED</u>	<u>ON MODELS</u>	<u>MFG DEPTS OF DIV BELOW AFFECTED</u>	<u>REASON</u>
6-182	1/27/2020	NONE	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	BOEING PORTLAND	ALLOW THE USE OF CITRIC ACID TO CLEAN SHOT PEEN RESIDUE ON TITANIUM ASSEMBLIES WITH FAYING SURFACES. ALLOW THE USE OF LIQUID CITRIC ACID FOR SOLUTION 29.
6-183	1/27/2020	MITSUBISHI HEAVY INDUSTRIES (MHI)	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	NONE	TO PERMIT THE USE OF ULTRASONIC RINSING FOLLOWING METHOD II ETCHING.
9-73	1/27/2020	DUCOMMUN AEROSTRUCTURES	494	NONE	TO ALLOW USE OF AN OPTIONAL SCALE CONDITIONER FOR IMPROVED FLOW TIME AND TECHNICAL UPDATES. S-4762
8-12	1/27/2020	DUCOMMUN AEROSTRUCTURES	H-47 AND DERIVATIVES	NONE	TO ALLOW USE OF AN OPTIONAL SCALE CONDITIONER FOR IMPROVED FLOW TIMES AND TECHNICAL UPDATES. ADD TI-4AL-2.5V-1.5FE TO TABLE XXII AND SECTION 10.1.C
8-11	1/27/2020	AGUSTA	ALL CH-47 AND DERIVATIVES	NONE	DEFINE ETCHING SOLUTION USED BY AUGUSTA FOR TITANIUM
6-190	1/27/2020	PRECISION CASTPARTS CORP. (PCC)SCHLOSSER REDMOND, OREGON	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	NONE	TO ALLOW PRECISION CASTPARTS CORP. (PCC) SCHLOSSER TO USE EXISTING MATERIALS AND FACILITIES FOR PRE-PENETRANT ETCHING OF RAW TI CASTINGS.
6-184	1/27/2020	BARNES AEROSPACE LANSING DIVISION	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	NONE	TO ALLOW BARNES AEROSPACE LANSING DIVISION TO USE THEIR EXISTING TITANIUM ETCH SOLUTIONS FOR HOT FORMED AND SUPERPLASTIC-FORMED PARTS
6-185	1/27/2020	FUJI HEAVY INDUSTRIES, UTSUNOMIYA, JAPAN	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	NONE	TO ALLOW FHI THE USE OF EXISTING MATERIALS AND FACILITIES
6-186	1/27/2020	ALL SUBCONTRACTORS IN CHINA	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	NONE	TO ALLOW RAW MATERIALS CERTIFIED TO CHINA NATIONAL STANDARDS
6-187	1/27/2020	JAPANESE SUBCONTRACTORS	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	NONE	TO ALLOW USE OF ALTERNATE CHEMICALS AVAILABLE IN JAPAN
6-188	1/27/2020	XAC	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	NONE	TO PERMIT THE USE OF LOCALLY AVAILABLE CHINESE MATERIALS
6-189	1/27/2020	AIRGRUP S.L.	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	NONE	TO ALLOW AIRGRUP TO USE THEIR EXISTING TITANIUM ETCH SOLUTION
6-156	9/5/2008	TRIUMPH FABRICATIONS, HOT SPRINGS, AR	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	NONE	TO ALLOW TRIUMPH FABRICATIONS TO USE TF-HS ES 205 FOR METHOD II CLEANING AND DESCALING OF TITANIUM