

BAC5436

REVISION
J
4/8/2021

ETCH INSPECTION OF GROUND OR
MACHINED STEEL PARTS



THIS SPECIFICATION ESTABLISHES THE PROCESSING PROCEDURES AND REQUIREMENTS FOR ETCH INSPECTION OF GROUND OR MACHINED PARTS FOR THE DETECTION OF GRINDING OR MACHINING BURNS, CASE LEAKAGE, OR DECARBURIZATION. IT IS INTENDED TO BE USED FOR THE INSPECTION OF BEARING DETAILS, PARTS IDENTIFIED D1 IN ACCORDANCE WITH BAC5617 ON THE ENGINEERING DRAWING, ALL SURFACES OF CARBURIZED PARTS, AND THROUGH-HARDENED LOW ALLOY AND ALLOY STEEL PARTS REQUIRING NITAL ETCH INSPECTION IN ACCORDANCE WITH THE ENGINEERING DRAWING.

<u>BAC 5436 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>
1-7	9/2/2020	ASHOT ASHKELON INDUSTRIES, LTD.	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	NONE	ALLOW THE USE OF A WATER DISPLACING COMPOUND IN LIEU OF HOT WATER RINSING
1-8	9/2/2020	LEONARDO HELICOPTERS	CH-47	NONE	TO INCLUDE AN ADDITIONAL HYDROCHLORIC ACID SOLUTION FOR USE AT LEONARDO HELICOPTERS
1-9	9/2/2020	ALL	ALL BP	ALL	TO ADD NITAL ETCH INSPECTION PROCEDURE FOR FERRIUM C61 STEEL
1-10	9/2/2020	NORTHSTAR (AMAD)	494	NONE	ALLOW SUPPLIER TO USE THEIR ALKALINE RINSE SOLUTION. S-10911
6-72	12/5/2014	UTC AEROSPACE SYSTEMS	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	NONE	UTC AEROSPACE SYSTEMS USES THE SAME TANK FOR ALKALINE CLEAN AS IT USES FOR POST ETCH RINSE AT THE TULLAHOMA SHOP.
6-74	3/24/2017	LIEBHERR-AEROSPACE LINDENBURG GMBH	777X	NONE	TO ALLOW LIEBHERR-AEROSPACE LINDENBERG GMBH TO USE THEIR OWN PROCESS SPECIFICATION FOR NITAL ETCH.
9-2	2/17/1994	ALL	581 494 (F-22)	BOEING DEFENSE AND SPACE GROUP AND SUPPORTING	TO CONVERT PSD FOR F-22 USAGE.
DCNPSO-015382_01	4/8/2021	N/A	N/A	N/A	1. To remove "certified" requirement for gray scale card (because suppliers of this product do not certify the product) 2. To remove hot water rinse requirement from post HCl immersion for parts over 5000 square inches.