

BAC5602

REVISION
AF
8/28/2001

CHEMICAL CONVERSION COATINGS
FOR ALUMINUM AND ALUMINUM
ALLOYS



MFG DEPTS OF DIV BELOW

<u>BAC 5602 DEPARTURES</u>	<u>EFF DATE</u>	<u>SUBCONTRACTOR(S) AFFECTED</u>	<u>ON MODELS</u>	<u>AFFECTED</u>
6-145	1/13/1986	GRUMMAN AEROSPACE CORP	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	NONE
6-174	8/6/1992	KAWASAKI HEAVY INDUSTRIES	777	NONE
6-182	5/20/1996	FORTECH	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	NONE
6-183	10/14/1996	UNC AEROSTRUCTURES	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	NONE
6-184	6/4/1997	ALCOA – Cleveland	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	NONE
6-193	7/14/2000	NORTHROP GRUMMAN AERO STRUCTURES	747	NONE
6-195	4/12/2002	ALL	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	ALL BCAG AND SUPPORTING
6-200	8/7/2007	ALL	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	ALL BCAG AND SUPPORTING
6-201	6/9/2010	VOUGHT AND SUPPORTING	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	NONE
6-202	7/26/2012	SPIRIT AEROSYSTEMS, INC.	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	NONE
6-203	7/26/2012	ROLL FORMING CORP.	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	NONE
6-204	11/11/2013	ALL	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	ALL BCA AND SUPPORTING
6-205	3/13/2014	NONE	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	INTEGRATED AERO STRUCTURES IAS MBU 605 HEAT TREATMENT OVEN #420
6-206	3/13/2015	ALL	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	ALL BCA AND SUPPORTING
6-40	11/17/1969	ROHR AIRCRAFT CORPORATION	747-COMMERCIAL AIRPLANE GROUP	NONE

8-15	6/16/2011	ALL	ALL BOEING PHILADELPHIA	ALL BOEING PHILADELPHIA
9-1	4/20/1995	ALLFAB INCORPORATED	ALL BOEING DEFENSE AND SPACE GROUP	NONE
9-2	4/20/1995	ALL	581 (B-2)	BOEING DEFENSE AND SPACE GROUP AND SUPPORTING
9-3	8/1/2013	ALL	ALL BDS	ALL BDS AND SUPPORTING

THIS SPECIFICATION ESTABLISHES HEAT TREATMENT REQUIREMENTS FOR ALUMINUM ALLOYS. ANNEALING, SOLUTION TREATMENT, PRECIPITATION TREATMENT AND STRESS RELIEF REQUIREMENTS ARE INCLUDED.

REASON

TO ALLOW STATISTICALLY ESTABLISHED HARDNESS TESTING LIMITS TO BE USED FOR PRODUCT ACCEPTANCE LIMITS IN LIEU OF TENSILE TESTING DURING INSPECTION OF 7075-T76XXX PARTS.
TO ALLOW FOR SOLUTION HEAT TREATMENT OF 7075 SHEET STRINGER STOCK TO 0.125 INCH IN THICKNESS.
TO ALLOW FORTECH TO PROCESS FORGINGS IN A MANNER WHICH REDUCES MACHINING DISTORTION AND IMPROVES PROPERTIES.
TO EXTEND THE QUENCH TIME 10 TO 15 SECONDS.
TO ALLOW ALCOA - CLEVELAND TO PROCESS HAND AND DIE FORGINGS IN A MANNER WHICH REDUCES MACHINING DISTORTION.
TO PERMIT NORTHRUP GRUMMAN TO USE THEIR HEAT TREAT SPECIFICATION HT-1 REVISION R, BUT WITH THE EXCEPTIONS AND REVISION NOTED WITHIN.
PROVIDE COMMON AGING PRACTICE FOR BAC AND DPD PARTS.
TO PROVIDE BAC5602 WITH THE HEAT TREATMENTS OF 7136 EXTRUSIONS AND 7055 SHEET.
PROVIDE CLARIFICATION OF TEMPER INSPECTION REQUIREMENTS FOR 2524-T42 SHEET AND PLATE.
TO ALLOW STATISTICALLY ESTABLISHED HARDNESS TESTING LIMITS TO BE USED FOR PRODUCT ACCEPTANCE LIMITS IN LIEU OF TENSILE TESTING DURING INSPECTION OF 7075-T76XXX PARTS.
TO PERMIT ROLL FORMING CORP. TO PROCESS COIL STOCK IN ACCORDANCE WITH BAC5602.
TO PROVIDE THE OPTION TO USE 6061 SHEET OR PLATE FOR TEMPER INSPECTION COUPONS.
TO REVISE REQUIREMENTS FOR STACKING OF 7075 SHEET COILS DURING SOLUTION TREATMENT.
UPDATE SECTION 5 TO ADD AQUATENSID D AS AN APPROVED TYPE I GLYCOL QUENCHANT AND SECTION 8, INCLUDING TABLE V WITH APPROPRIATE PROCESSING PARAMETERS
TO MINIMIZE DISTORTION DURING QUENCHING.

TO ALLOW FURNACE CONTROL IN ACCORDANCE WITH AMS2750 FOR HEAT TREATMENT OF ALUMINUM ALLOYS.

SUBCONTRACTOR IS NOT ABLE TO MEET QUENCH DELAY REQUIRMENTS WITH UNMODIFIED EQUIPMENT. UPDATE TO ELIMINATE CONFLICT WITH REV. AD. SCB 59-107

UPDATE TO REV. AD

TO PROVIDE BAC5602 WITH THE HEAT TREATMENTS OF 7136 EXTRUSIONS AND 7055 SHEET (SAME AS PSD6-200).

DOCUMENT REVISION NEW 12/11/2014