

## F/A-18 Material Specifications

Index last updated 10/29/23

(# Updates against 8/14/23 )

### WARNING INFORMATION SUBJECT TO EXPORT CONTROL LAWS

The information contained within this web site may be subject to the International Traffic in Arms Regulation (ITAR) or the Export Administration Regulations (EAR). This information will not be exported, released, or disclosed to foreign nationals inside or outside the United States without first complying with the export authorization requirements of the ITAR and/or the EAR.

#### Process Specifications Constraints

Approved Processors List (APL) can be found on Boeings External Internet WEB page at: <http://www.boeing.com/companyoffices/doingbiz/d14426/>

[E] Export Controlled

[P] Proprietary

Spec Number	Rev	Title
BMS 13-54 [E]	Rev. H	Lacing Tape, Flat Braid
DMS 2089 [E] [P]	Rev. D	Tape, Tying, Glass Fiber
DMS 2186 [E] [P]	Rev. A	Tape, Electrical Insulation, Self-Adhering, High-Temperature
MCS 5800 [E]	New	CONSUMABLE MATERIAL SPECIFICATION FOR FABRICATION AND TESTING OF AIRCRAFT PARTS, ASSEMBLIES, AND SYSTEMS
MCS 5900 [E]	EO H01665 Rev. AH	Consumable Material Specification for Composite Fabrication and Bonding Operations
MCS 5900.1	Rev. BL	Consumable Material Specification for Composite Fabrication and Bonding Operations - Special Provisions for MCS 5900
MCS 5900.4 [E] [P]	Rev A	Consumable Material Specification for Prepreg Backing Release Materials - CYTEC
MCS 5901 [E]	Rev. B	Consumable Material Specification for Composite Fabrication and Bonding Operations - Requirements for Approval
MCS 5901.1 [E]	Original Issue	Consumable Material Requirements, Peel Ply Materials

Spec Number	Rev	Title
MCS 5901.2 [E]	Original Issue	Consumable Material Requirements, Fiberglass Breather/Bleeder
MCS 5901.5 [E]	Original Issue	Consumable Material Requirements, Release Films
MCS 5901.6 [E]	Original Issue	Consumable Material Requirements, Nylon Vacuum Bag Films
MCS 5901.7 [E]	Rev. A	Consumable Material Requirements, Pressure Sensitive Tapes
MCS 5901.8 [E]	Original Issue	Consumable Material Requirements, Vacuum Bag Sealant Tape
MCS 5901.9 [E]	Rev. B	Consumable Material Requirements, Gloves
MCS 5901.10 [E]	Original Issue	Consumable Material Requirements, Barrier/Hand Creams
MCS 5901.11 [E]	Original Issue	Consumable Material Requirements, Prepreg Backing Release Materials.
MCS 5901.13 [E]	Rev. A	Consumable Material Requirements, Silicone Rubber Sheet
MCS 5901.14 [E]	Original Issue	Consumable Material Requirements, Cork/Rubber Dam Matherial.
MCS 5901.15 [E]	Rev. A	Consumable Material Requirements, Mold Release
MCS 5901.16 [E]	Original Issue	Consumable Material Requirements, Cotton Cloth Wipers and Paper and Non-Woven Synthetic Wipers
MCS 5901.18 [E]	Original Issue	Consumable Material Requirements, Verifilm
MCS 5901.19 [E]	Original Issue	Consumable Material Requirements, Aprons/Sleeves/Shop Coats for Bonding Operations and Handling Prepreg
MCS 6000 [E]	EO H00547 Rev. N	Consumable Material Specification for Hand and Immersion Cleaning
MCS 6000.1 [E]	Rev. D	Consumable Material Specification for Hand and Immersion Cleaning - Temporary Provisions to MCS 6000
MCS 6000.2 [E]	Rev. D	Consumable Material Specification for Hand and Immersion Cleaning - Requirements for Approval
MMS 145 [E]	EO E85366 Rev. E	Aluminum Forgings, Alloy 7149
MMS 146 [E]	ADD. 1 (Rev. Y) Rev. R	Aluminum Forgings, Alloy 7050
MMS 149 [E]	ADD. 1 (Rev. L) Rev. M	Aluminum Alloy 2124 Plate, Special Quality

Spec Number	Rev	Title
MMS 159 [E]	Rev. T	Aluminum Alloy, Plate (7075-T73 and -T7351)
MMS 165 [E]	Rev. B	Nickel Base Alloy Welding Wire (Inconel Filler Metal 82)
MMS 214 [E]	ADD. 1 (Rev. G) Rev. H	Steel Bars and Forgings, AF 1410
MMS 217 [E]	ADD. 1 (Rev. E) Rev. C	Bars and Forgings, Aermet 100 Steel
MMS 265 [E]	Rev. G Cancellation Notice, Superseded by AMS 5738	Steel Bar and Wire, Corrosion Resisting (AISI 303SE) Cold Worked - Free Machining
MMS 307 [E]	ADD. 1 (Rev. C) Rev. H	Heat and Corrosion Resistant Structural Adhesives
MMS 319 [E]	Cancellation & Supersedence Notice Use MIL-A-46146, Type I	Adhesive/Sealant, Silicone Rubber, High Strength
MMS 327 [E] [P]	ADD. 1 (Rev. K) Rev. K	Sealant, Electrically Conductive, Form-in-Place
MMS 331 [E]	Rev. E	Compound; Modified Fluorosilicone Groove Injection
MMS 332 [E]	ADD. 1 (Rev. N) Rev. W	High Temperature Resistant Fuel Tank Filletting and Fay Surface Sealant
MMS 347 [E]	ADD. 1 (Rev. L) Rev. J	Epoxy Syntactic Materials
MMS 350 [E]	ADD. 1 (Rev. D) Rev. L	Structural Adhesive System, Intermediate Modulus, For 250F Service Applications
MMS 357 [E]	Rev. E	Adhesive, Silicone Rubber, Pourable
MMS 358 [E]	EO H01750 Rev. E Addendum 1 Rev. J	Liquid Shim
MMS 360 [E]	ADD. 1 (Rev. C) Rev. E	Sealing Compound, Noncuring, Low Consistency, Beaded Fuel Resistant Silicone, Groove Injection
MMS 370 [E]	ADD. 1 (Rev. C) Rev. E	Structural Adhesive System, 250 F Curing
MMS 373 [E]	ADD. 1 Rev. B	Sealant, Electrically Conductive Silicone, Form-In-Place
MMS 383 [E] [P]	New ADD. 1 (New)	Expanded Copper Foil, Epoxy Film Adhesive Impregnated
MMS 401 [E]	EO F29227 Cancellation & Supersedence Notice Use MIL-C-38736B, Type I	Metal Cleaning Solvent

Spec Number	Rev	Title
MMS 405 [E]	Superseded When MMS-405 is specified, Use MMS-420 and MMS-425	EPOXY PRIMER AND EPOXY ENAMEL
MMS 411 [E]	ADD. 1 (Rev. H) Rev. F	Aluminum Oxide, Abrasive Blasting
MMS 417 [E] [P]	EO F97014 EO H01119 ADD. 1 (Rev. F) Rev. H	Conductive Coating
MMS 419 [E] [P]	EO F86320 EO F97015 F/A 18 Perm. Supp. 1 (Confidential & Export Controlled) ADD. 1 (Rev. B) Rev. C	Intermediate Temperature Elastomeric Coating
MMS 420 [E]	EO F95624 ADD. 1 (Rev. BE) Rev. R	Aliphatic Polyurethane Finish System
MMS 423 [E]	EO F96507 EO F96508 ADD. 1 (Rev. K) Rev. D	Low V.O.C. - Low Density Epoxy Primer
MMS 425 [E]	EO F96506 Rev F. Cancellation Notice	High Temperature Epoxy Primer
MMS 436 [E]	ADD. 1 (Rev. B) Rev. B	High Temperature Epoxy Primer
MMS 439 [E]	ADD. 1 (Rev. E) Rev. G	Polyurethane Elastomer
MMS 440 [E]	EO F96566A ADD. 1 (Rev. K) Rev. F	Elastomeric Material
MMS 443 [E] [P]	Rev. G F/A-18 Perm Supp. 2 (Conf & Export Controlled) Addendum 1 Rev. L	Elastomeric Material, Corrosion Resistant
MMS 445 [E] [P]	ADD. 1 (Rev. F) Rev. F	Elastomeric Tape
MMS 446 [E] [P]	Add. 1 (Rev K) Rev. G	Corrosion-Resistant Elastomeric Sheet
MMS 454 [E]	Cancellation & Supersedence Notice Use AMS-3025	Polyalkylene Glycol Heat Treating Quenchant
MMS 455 [E]	EO F96568 ADD. 1 (Rev. B) Rev. E	Coating, Fire and Thermal Barrier
MMS 487 [E] [P]	ADD. 1 (Rev. D) Rev. D	Elastomeric Material, Light Weight

Spec Number	Rev	Title
MMS 496 [E] [P]	New Addendum No. 1 (New)	ELASTOMERIC MATERIAL, CORROSION RESISTANT, STANDARD
MMS 508 [E]	Cancellation & Supersedence Notice Use MMS-811	Tubing, Chlorotrifluoroethylene or Ethylenetetrafluoroethylene Plastic
MMS 519 [E]	EO F77286 ADD. 1 (Rev. F) Rev. E	Intermediate Modulus Carbon Fiber /Toughened Epoxy Unidirectional Prepreg Material
MMS 525 [E]	EO H02071 ADD. 1 (Rev. M) Rev. K	Aramid Fiber Cloth Prepreg
MMS 527 [E]	Rev. F Addendum 1 Rev (New)	Cloth, Glass, 104E, Dry A1100 Soft Finish
MMS 529 [E] [P]	ADD. 1 (Rev. E) Rev. K	Epoxy Impregnated Fiberglass Cloth
MMS 538 [E] [P]	EO F94672 ADD. 1 (Rev. E) Rev. F	Plastic Molding Compound, Epoxy Resin, Carbon Fiber Reinforced
MMS 544 [E] [P]	EO F33574 ADD. 1 (Rev. T) Rev. K	Carbon/Epoxy Prepreg Cloth
MMS 549 [E] [P]	EO F34004A ADD. 1 (Rev. N) Rev. L	Moderate Temperature, High Strength Carbon/Epoxy Prepreg Material
MMS 554 [E]	ADD. 1 (Rev. D) Rev. C	Reticulated Foam, Dry Bay Type
MMS 555 [E]	Cancellation & Supersedence Notice Use MIL-B-83054	Baffle Material, Fuel Tank, Polyurethane Foam
MMS 575 [E]	ADD. 1 (Rev. A) Rev. D	Roving, Graphite Fibers
MMS 582 [E]	ADD. 1 (Rev. G) Rev. D	Insulation Blanket, Medium and High Temperature
MMS 601	EO G00140 Superseded Where MMS-601 is specified, Use MIL-A-18455	Argon, Welding, Liquid and Gas
MMS 654 [E]	Rev. D Cancelled and Superseded	Coolant Fluid, Dielectric, Polyalphaolefin
MMS 657 [E]	Rev. A Add 1 Rev. A	GREASE: WIDE TEMPERATURE RANGE LITHIUM OR LITHIUM COMPLEX THICKENED FOR AIRCRAFT WHEEL BEARINGS
MMS 701 [E]	ADD. 1 (Rev. G) Rev. K	Core Material, Aluminum Honeycomb, 5052-H39 Alloy
MMS 702 [E]	Cancellation & Supersedence Notice Use MMS-714	Core Material, Aluminum Honeycomb, 5056-H39 Alloy

Spec Number	Rev	Title
MMS 703 [E]	ADD. 1 (Rev. D) Rev. E	Core Material, Fabric Reinforced Plastic Honeycomb
MMS 704 [E]	EO F97215 ADD. 1 (Rev. C) Rev. F	Core Material, Aluminum Honeycomb, Flexible, Corrosion Resistant
MMS 710 [E]	EO F79603A Rev. D	Core, Corrosion and Heat Resistant Honeycomb
MMS 711 [E]	Rev. C	Core Material, Titanium Honeycomb
MMS 714 [E]	EO F97216 ADD. 1 (Rev. N) Rev. F	Core Material, Corrosion Resistant Aluminum Honeycomb, 5056-H39 Alloy
MMS 715 [E]	ADD. 1 (Rev. D) Rev. D	Core Material, Honeycomb, Nylon Fiber Paper Base
MMS 726 [E]	ADD. 1 (Rev. C) Rev. E	Core; Syntactic Epoxy
MMS 727 [E]	ADD. 1 (Rev. B) Rev. E	Syntactic Core
MMS 728 [E]	EO F97751 Add. 1 (Rev. B) Rev. B	Core Material, Phosphoric Acid Anodized Aluminum Honeycomb, 5056 Alloy
MMS 805 [E]	Cancellation and Supersedence Notice	Sleeving, Insulation, Flame Retardant Silicone Rubber, Heat Shrinkable
MMS 807 [E]	Rev. F Add. 1 (New)	Sleeving, Insulation, Semi-Rigid, Irradiated Polyolefin, Heat Shrinkable
MMS 809 [E]	EO H00726 EO H00728 Supersedence Notice Use ACS-MRS-4651 and 9NG0006	Sleeving, Insulation, Irradiated Modified Polyolefin, Heat Shrinkable to a Minimum of 50% of the Expanded Diameter
MMS 811	Rev. E - Cancelled Cancelled and Superseded	Tubing, Electrical Insulation, Standard Wall, Extruded Polytetrafluoroethylene
MMS 815 [E]	Cancellation and Supersedence Notice Use MMS 809 or MIL-I-23053/8	Sleeving, Insulation, Electrical, Vinyl, Temperature Range -90F to +185F
MMS 819 [E]	ADD. 1 (Rev. C) Rev. D	Sleeving, Electrical Insulating /Waterproofing, Dual Wall Fluorocarbon (TFE/FEP), Heat Shrinkable Outer Wall and Melttable Inner Wall
MMS 820 [E]	ADD. 1 (Rev. A) Rev. C	Sleeving, Thermoplastic, Fluorinated Ethylene Propylene, Nonshrinkable
MMS 821 [E]	Cancellation and Supersedence Notice	Sleeving, Electrical Insulating, Polytetrafluoroethylene, Heat Shrinkable
MMS 823 [E]	Cancellation & Supersedence Notice Use MIL-S-8516	Compound; MIL-S-008516D(AS), Polysulfide
MMS 824 [E]	Cancellation and Supersedence Notice	Printed Wiring Boards, Single and Double Sided

Spec Number	Rev	Title
MMS 825 [E]	Cancellation and Supersedence Notice	Printed Wiring Boards, Multilayer
# MMS 833 [E]	ADD. 1 (Rev. H) Rev. N	Yarn; Braiding, Electrical Harness Jacket
MMS 834 [E]	Cancellation & Supersedence Notice Use MMS-814	Wire, Crosslinked Polyalkene Insulated, Tin Coated Copper and Silver Coated Copper Alloy, Solderable
MMS 901 [E]	ADD. 1 (Rev. P) Rev. J	Nameplates, Aluminum Foil, Adhesive Backed
MMS 903 [E]	Cancellation & Supersedence Notice Use MMS-901	Tape, Anodized Aluminum Foil, Adhesive Backed
MMS 1205 [E]	EO H02806 ADD. 1 (Rev. D) Rev. T	Titanium Seamless Tubing, Cold Worked and Stress Relieved, 3A1-2.5 V, Aircraft Hydraulic System
MMS 1217 [E]	ADD. 1 (Rev. J) Rev. G	Titanium Ingot
MMS 1225 [E]	EO E85828 Rev. D	Titanium Alloy Forgings, Premium Grade Ti-6Al-4V, Recrystallization Annealed
MMS 1226 [E]	Rev. D	Titanium Alloy Die Forgings, Ti-6Al-4V, Mill Annealed
MMS 1227 [E]	ADD. 1 (Rev. B) Rev. C	Titanium Alloy Plate, Premium Grade Ti-6Al-4V, Beta Annealed
MMS 1229 [E]	Rev. D	Titanium Tubing, Welded, Ti-70, Low Pressure
MMS 1233 [E]	EO H02197 ADD. 1 (Rev. R) Rev. H	Titanium Alloy Forgings, Standard Grade Ti-6Al-4V, Recrystallation Annealed
MMS 1236 [E]	ADD. 1 (Rev. B) Rev. C	Strucural Quality D357.0-T6 Sand and Investment Castings
MMS 1237 [E]	Original Issue	Laser Deposited Ti-6Al-4V Performs, Stress-Relieved and Aged
MMS 1420 [E]	EO F09070A ADD. 1 (Rev. R) Rev. G	Aluminum Alloy Plate, 7050-T73651
MMS 1421 [E]	EO H00609 Rev. D	Aluminum Extrusions, Alloy 7149
MMS 1422 [E]	Rev. F	Aluminum Alloy 7050, Extruded Shapes and Bars
MMS 1423 [E]	Rev. E	Aluminum Wire, 1100 Series, Ivadizer R Evaporant
MMS 1427 [E]	Rev. C	Aluminum Alloy 7075-T7351 Rod and Bar (A Modification of QQ-A-225/9)
MMS 1428 [E]	EO F34069A Rev. D	7475 Aluminum Sheet, Superplastic Grade

Spec Number	Rev	Title
MMS 1438 [E]	EO F95629 ADD. 1 (Rev. D) Rev. G	Aluminum Alloy 7050-T73511/-T74511, Extruded Shapes and Bars
MMS 1439 [E]	ADD. 1 (Rev. J) Rev. E	Aluminum Alloy Plate, 7050-T7451, Fatigue Tested
MMS 1440 [E]	ADD. 1 (Rev. A) Original Issue	Aluminum Alloy Tubing
MMS 1609 [E]	ADD. 1 (Rev. B) Rev. D	Beryllium Copper Tubing, Copper Alloy 172
MMS 2101 [E]	Rev. D	Steel Forgings, HP 9-4-20
MMS 2404 [E] [P]	ADD. 1 (Rev. B) Rev. K	Powder, Iron-Silicon Alloy
MMS 5005 [E] [P]	ADD. 1 (Rev. N) Rev. U	Composite Surface Scrims, Moderate Temperature
MMS 5024 [E] [P]	EO F77287 ADD. 1 (Rev. G) Rev. D	High Strength Carbon Fiber/Toughened Epoxy Unidirectional Prepreg Material
MMS 5025 [E] [P]	EO F77288 ADD. 1 (Rev. E) Rev. D	High Strength Carbon Fiber/Toughened Epoxy Cloth Prepreg Material
MMS 5026 [E] [P]	Add. 1 (Rev. F) Rev. G	Toughened Epoxy Impregnated Fiberglass Cloth
MMS 5027 [E] [P]	EO H01021 ADD. 1 (Rev. G) Rev. G	Carbon Fiber/Toughened Epoxy Unidirectional Fiber Placement Material
MMS 5028 [E] [P]	ADD. 1 (Rev. E) Rev. H	Plastic Rotomolding Compound, Nylon
MMS 5030 [E] [P]	EO F92827 EO H00486 EO H01960 ADD. 1 (Rev. D) Rev. E	Binderized Fabric
MMS 5031 [E]	ADD. 1 (Rev. C) Rev. E	Resin for Resin Transfer Molding
MMS 5035 [E]	EO H01917 ADD. 1 (Rev. B) Rev. C	Molding Compound, Epoxy Resin, Glass Fiber Reinforced
MMS 5038 [E] [P]	ADD. 1 (Rev. E) Rev. F	Composite Pultruded Rod, Bismaleimide, Carbon Fiber Reinforced
MMS 5040 [E] [P]	ADD. 1 (Rev. D) Rev. A	Reticulated Foam, Microwave Absorbing
MMS 5071 [E]	ADD. 1 (New) New	Glass Fiber Reinforced Thermoplastic Composite Prepreg



Spec Number	Rev	Title
MMS 9001 [E]	Cancellation & Supersedance Notice Use P.S. 23001	Preproduction Approval and Production Inspection and Acceptance of Castings Used in Subcontractor Components
MMS 9002 [E]	Cancellation & Supersedence Notice Use P.S. 14280	Acceptance Requirements for Injection Moldings

[ [Back to Top](#) ]

Contact [Kaitlin Lopez](#) with questions or comments about the resources on this page.

---

*Copyright 2003 Northrop Grumman Corporation  
All Right Reserved  
Last modified: October 29, 2023*