



The following Procurement Quality Requirements become an integral part of the Purchase order to the extent specified in the Purchase Order. Requirements "A" through "H" are applicable to all procurements. All documents referenced herein are of the latest revision at the time the Purchase Order is placed.

SHIPMENT WILL NOT BE CONSIDERED COMPLETE AND INVOICE WILL NOT BE HONORED UNTIL THESE REQUIREMENTS ARE FULFILLED.

APPLICABLE TO ALL PROCUREMENTS:

- A. **REVISION OF REFERENCED SPECIFICATION:** Where a specification is referred to herein, it shall be considered the revision of issue as detailed in the Purchase Order.
- B. **NONCONFORMING MATERIAL:** The seller is not authorized to perform material review action of nonconforming materials with the intent of delivering nonconforming material without written authorization from Oppenheimer Precision Products Quality Assurance prior to shipment.
- C. **RESUBMISSION OF REJECTED MATERIAL:** All material rejected by Oppenheimer Precision Products, Inc. and subsequently resubmitted by the supplier shall be identified as previously rejected material. The supplier shall reference the Oppenheimer rejected document and provide objective evidence that the cause for rejection has been corrected. If material is subject to Government source inspection, it shall have been resubmitted to the Government prior to delivery.
- D. **CHANGES TO PRODUCT OR PROCESS:** The supplier and/or manufacturer shall not implement changes to design, materials, processes, or controls without prior written approval when such design, material, process, or control is specified or controlled by OPPI. This requirement is invoked to assure that the homogeneity of the material is maintained and that performance, quality, and reliability of the material is not compromised. Any changed material shall be clearly identifiable from previous materials.
- E. **SUPPLIER CORRECTIVE ACTION REQUESTS:** A CAR will be issued by OPPI Quality Assurance when formal documented action by a supplier is needed. The supplier shall assign required priority to identification and correction of causes and respond within the time period indicated on the CAR.
- F. **PRESERVATION, PACKAGING, PACKING, AND SHIPPING:** When these instructions are not specified or references within the procurement documentation package, it shall be the seller's responsibility to ensure that the materials are preserved, packaged, packed, and shipped in a manner that will preserve the quality and prevent damage and/or deterioration to the material being shipped. Shipments consisting of multiple containers shall have each container identified as 1 of 5, 2 of 5, 3 of 5, etc. Shipping Documentation, certifications, test data and inspection data shall be included in container number 1 or in an attached envelope.
- G. **RIGHT OF ENTRY:** OPPI hereby reserves the right of entry to the supplier's facilities for the purpose of auditing supplier's procedures and inspecting purchased item(s) by OPPI and/or its customers.
- H. The supplier shall ensure that persons are aware of: their contribution to product or service conformity, their contribution to product safety and the importance of ethical behavior.

The following quality requirements are applicable when the paragraph numbers are specified on the purchase order.

1. **MIL-Q-9858:** The seller shall comply with MIL-Q-9858 "Quality Program Requirements."
2. **MIL-I-45208:** The seller shall comply with MIL-I-45208 "Inspection System Requirement," or equivalent system.
3. **CERTIFICATION OF MATERIAL CONFORMANCE:** A statement of material conformance attesting that the material meets all contractual requirements, and signed by a company official, shall be included with each shipment under this Purchase Order. If the statement is noted on the packing slip, an additional signed copy will be required with the shipment.
4. **ISO 9001:** The seller shall have a quality program that complies with ANSI/ASQ/ISO9001, *Model for Quality Assurance in Design/Development, Production, Installation and Servicing*.
5. **RECORDS:** The supplier shall maintain adequate records of inspections and tests performed on material delivered under this order. The records shall be maintained at the supplier's location to be readily retrievable for a period of at least Ten years from the date of the last shipment against this Purchase Order, or for the period specified in the Purchase Order, whichever is longer.
6. **GOVERNMENT SURVEILLANCE - MILITARY CONTRACT:** The US Government has the right to inspect any or all work included in this order at the supplier's plant. Government inspection or release of product prior to shipment is not required, unless otherwise notified. A copy of this Purchase Order shall be provided to your Government Plant Representative on their request.
7. **CERTIFICATION OF CONFORMANCE MICRO ELECTRONICS:** A CofC, in accordance with MIL-S-19500 "General Specification for Semiconductor Devices," para. 3.3.1 or MIL-M-38510, "General Specifications for Microcircuits," para. 3.3.1, is required.
8. **CERTIFICATION OF CONFORMANCE, METROLOGY:** A C of C in accordance with ISO 10012 OR ANSI Z540 "Calibration System Requirements," or equivalent, attesting to the traceability of calibration standards to the National Institute of Standards and Technology is required.
9. **FUNCTIONAL TEST REPORTS:** Each shipment shall be accompanied with two (2) legible and reproducible copies of actual test results, identifiable as operational, mechanical, electrical, hydraulic, inspection parameters of the material submitted. Reports shall be signed by a responsible agent of the organization performing the tests.
10. **FLOW-DOWN OF REQUIREMENTS:** The seller shall flow down to any and all lower-tier suppliers all applicable material, process, certification and testing requirements.
11. **X-RAY REPORTS:** Items requiring radiographic inspection shall be submitted to OPPI in accordance with applicable specifications and standards. Findings shall be reported on suitable forms. The individual interpreting the X-Ray shall be identified and the report shall be signed by an official of the firm performing the service. The X-ray and two (2) reproducible copies of the report shall be delivered with the material and must be identifiable with the material.
12. **ELECTROSTATIC DISCHARGE CONTROL:** The supplier shall establish and maintain an effective ESD control program in compliance with Mil-Std-1686 or ANSI/ESD S20.20.
13. **PACKAGING OF COMPONENTS:** Electrical components shall be packaged in a manner that will provide adequate protection during handling and shipping. Class 1 and Class 2 per DOD-STD-1686 "Electrostatic Discharge Control Program" or ANSI/ESD S20.20 shall be packaged to conform to the following:
 - A. Protection shall be provided in accordance with DOD-STD-1686.
 - B. Unit packs shall then be enclosed in ESD protective material.
 - C. Outer surface of the package shall be marked in accordance with para. 5.11c of DOD-STD-1686.

14. **MARKING - WIRE, SLEEVING, TUBING:** Wire, sleeving, and tubing shall have the following information placed on the spools and/or tags, as necessary to identify the material:
- A. Mil Spec. Part Number
 - B. Description of Material
 - C. Date of Manufacture
 - D. Manufacturer's Name
15. **GOVERNMENT SOURCE INSPECTION MILITARY CONTRACTS:** Government inspection is required prior to shipment from the supplier's plant. Upon receipt of this order, promptly notify the Government representative who normally services the facility so that appropriate planning for Government inspection can be accomplished. In the event that the representative or office cannot be located, our buyer should be notified immediately.
16. **OPPI SOURCE INSPECTION:** All items covered by this Purchase Order will be source inspected by OPPI. This will include surveillance of the product, quality systems, procedures and facilities. The seller shall furnish at no cost the necessary facilities and equipment, supply data, and perform tests as required by applicable drawings, specifications, and inspection instructions under the surveillance of OPPI representative(s). Final acceptance will be at OPPI facilities. OPPI reserves the right to re-inspect or re-test all items on receipt. When requesting source inspection, notify the buyer, whose name appears on the Purchase Order at least 48 hours in advance.
17. **FIRST ARTICLE INSPECTION (FAI):** Is required prior to the first delivery of the product baseline configuration. FAI shall be performed on the first unit/assembly produced and shall be reviewed by OPPI Quality Assurance prior to delivery. OPPI disclaims responsibility for material delivered prior to FAI approval unless it has been contractually authorized.
18. **SAE AS9102 FIRST ARTICLE INSPECTION (FAI):** First Article Inspection per the requirements of SAE AS9102 prior to the first delivery of the product baseline. FAI shall be performed on the first unit/assembly produced and shall be performed in accordance with all the requirements defined in SAE AS9102 (latest revision). The FAI report shall be reviewed by OPPI Quality Assurance prior to delivery. OPPI disclaims responsibility for material delivered prior to FAI approval unless it has been contractually authorized.
19. **TEST REPORTS – CHEMICAL / PHYSICAL:** The supplier shall furnish test reports verifying the physical and chemical properties as specified in applicable documentation. In the case of rubber and other elastomeric products subject to aging, shelf life documentation shall also include the date of manufacture (cure date) and the shelf-life expiration date.
20. **PRINTED CIRCUIT BOARDS - CERTIFICATION:** Materials shipped against this order shall fully meet the requirements of MIL-P-55110 and shall be accomplished by:
- A. MIL-P-55110 certification for the type of board and material.
 - B. MIL-P-55110 test coupon with traceability data.
 - C. A mounted micro-section of a plated-through hole from a test coupon. This clause is not intended to relieve the seller of any record keeping responsibilities of MIL-P-55110.
21. **PRINTED CIRCUIT INSULATION RESISTANCE:** The supplier shall perform continuity testing on all Printed Wiring Boards (PWBs) per section 4.8.7.3.1 and circuit shorts per section 4.8.7.3.2 of MIL-P-55110. Objective evidence of testing shall be furnished with each lot.

22. **IDENTIFICATION OF LIMITED CALENDAR LIFE:** The seller shall, in addition to the normal identification requirements of name, part or code number, specification number, type size, quantity, and manufacturer's recommended shelf-life, identify each item package or container of limited calendar life material with the manufactured date, storage temperature, and special handling requirements. This information shall be included in the shipping documents.
23. **FILTER TESTING:** P/N: M15773/26-0002, Filter, requires additional 100% burn-in testing as follows: 150 VAC, 125 degrees C, 96 hours, and 100% insulation resistance (IR) testing after burn-in. Parts shall be identified with a red dot on the body of the part.
24. **MIL-STD-1535, GROUP I:** This purchase is classified as a Group I purchase in accordance with MIL-STD-1535 "Supplier Quality Assurance Program Requirements." The seller shall comply with MIL-STD-1535 and flow down applicable sections thereof to any sub-tier suppliers.
25. **MIL-STD-1535, GROUP II:** This purchase is classified as a Group II purchase in accordance with MIL-STD-1535 "Supplier Quality Assurance Requirements". The seller shall comply with MIL-STD-1535 and flow down applicable sections thereof to any sub-tier suppliers.
26. **MIL-STD-1535 GROUP III:** This purchase is classified as a Group III purchase in accordance with MIL-STD-1535 "Supplier Quality Assurance Requirements". The seller shall comply with MIL-STD-1535 and flow down applicable sections thereof to any sub-tier suppliers.
27. **CERTIFICATE OF COMPLIANCE - SOFTWARE:** A Certificate of Compliance in accordance with MIL-Q-9858 "Quality Program Requirements" is required with shipment.
28. **DOD-STD-1679:** Software/Firmware shall be designed in accordance with DOD-STD-1679 "Weapon System Software Development."
29. **DOD-STD-2167:** Software/Firmware shall be designed in accordance with DOD-STD-2167 "Defense System Software Development."
30. **MIL-S-52779:** The supplier shall comply with MIL-S-52779 "Software Quality Assurance Program Requirement" and all other terms of the Purchase Order. A Certificate of Compliance in accordance with MIL-S-52779 is required with shipment.
31. **SPECIAL PROCESSES:** Special processes, such as soldering, welding, casting, molding, potting, etc. shall be in accordance with specifications and standards stated on the drawings and procurement documents. Prior certification and approval of special processes may be required by OPPI and/or its customers.
32. **PRINTED WIRING, FLEXIBLE AND RIGID-FLEX:** All flexible and rigid-flex printed wiring delivered under this Purchase Order shall meet the requirement of MIL-P-50884. The material furnished shall have been fabricated by a supplier that has been certified in accordance with section 4.5 of the specification. Sample test coupons shall be supplied with each shipment.
33. **ENGINEERING BUILD ONLY:** Each shipment of parts or material is to be noted on the part or material and/or outer package with "ENGINEERING BUILD ONLY."
34. **MIL-STD-45662:** The supplier shall comply fully with the requirements of MIL-STD-45662.
35. **WS6536/MIL-STD-2000:** The supplier shall comply fully with the requirements for copper purity on PCB's per WS6536/ MIL-STD-2000.
36. **SPC:** Statistical Process Control, for all Key Characteristics and Processes is required.

37. NOTICE OF THE REQUIREMENTS OF DFARS 252.225-7014, PREFERENCE FOR DOMESTIC SPECIALTY METALS, ALTERNATE I (Hereinafter “*Specialty Metals Clause*”):

The supplier shall comply with the requirements set forth in DFARS 252.225-7014, (Apr 2003) Alt I (Apr 2003) for all specialty metals provided with or incorporated into the product(s) listed on the purchase order. Additionally, compliance to the following is required:

- a. Your Quality Assurance Personnel, particularly Receiving Inspection, (i.e. where in-coming material and certifications are verified), should be made aware of specialty clause requirements, and ensure that no foreign melted specialty metals are utilized to fabricate any components for use on a product to be supplied to DoD unless they are melted in a qualifying country.

Additionally, if a distributor or other sub-tier supplier is the source of your material, ensure that the specialty metals clause requirements have been flowed down. Also take the necessary steps to ensure that your supplier provides only specialty metals (such as Titanium or stainless steel) that have been melted within the United States or a qualifying country and, if required, proper certifications are issued.

38. Counterfeit Electronics and Raw Material –

Suppliers of Electronics and Raw material must have A counterfeit component procedure that detects and prevents shipment to Oppenheimer any counterfeit Parts. SAE AS5553 should be used as guidance. The supplier shall provide a certificate of conformance From the OEM (Original Equipment Manufacturer) or a certificate of conformance from an Authorized Electronic Part Seller. Under no circumstances should components be purchased from a non-franchised distributor without the written permission of Oppenheimer.

39. Foreign Object Debris/Damage Prevention (FOD):

Seller shall maintain FOD prevention Program. Seller’s FOD Prevention Program shall include the review of design and manufacturing Processes to identify and eliminate foreign objects, entrapment areas and paths through which foreign Objects can migrate. Buyer shall have the right to perform inspections, verification and FOD Prevention Program audits at seller’s facility to ensure program documentation and effectiveness.

40 Configuration Control: When parts are supplied to Oppenheimer’s specifications, no changes in materials, construction, or performance shall be made by the vendor for the item(s) covered by this purchase order without prior written approval from Oppenheimer.