

Aveox, Inc. Quality Clauses

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AV1 – AVEOX INSPECTION AT DESTINATION:

Articles defined in this Purchase Order are subject to inspection at destination and will not be accepted by AVEOX if the supplier fails to submit the certification, documentation, test data, and/or reports specified in the purchase order. Notwithstanding the inspection rights granted to Purchaser under the clause entitled “Quality System Requirements”, representatives of Purchaser, Purchaser’s customer, and regulatory authorities, if required, shall be granted the right of access to all the Seller’s facilities, including sub-tier suppliers, at reasonable times for the purposes of reviewing applicable records to the Purchase Order.

AV1A – MRO MATERIALS:

Materials purchased for Maintenance, Repairs, and Overhaul use only (typically referred to as MRO) does not require Quality related inspection at Aveox.

AV2 – SPECIAL PROCESSING:

For the purposes of this quality clause the term supplier refers equally to prime suppliers and their contractors. All special processing required via a government, ASTM, or AVEOX process specification shall be performed by AVEOX approved suppliers only.

It is the responsibility of the supplier to request and ensure the supplier has and understands all required specifications. Should the prime supplier elect to subcontract special processing, the prime must receive written approval for the subcontractor selected prior to the processing of the items. All requirements of AVEOX imposed on the prime shall be flowed down to the subcontractor by the prime.

Each shipment must include a report/certification with the following information:

- AVEOX Purchase Order number
- Part Number(s)
- Serial and/or lot number(s), of the part(s)/material(s) processed (if applicable)
- Objective evidence demonstrating compliance with the applicable process shall be made available upon request.
- Hardness test results for heat treatment, destructive test results, etc.....
- A certification stating the special process was performed per the applicable drawing/material process specification with revision level.
- Supplier’s name and address
- When special processor is other than the special processor stating the special process was performed per the applicable drawing/specification requirements. Certification must include the processor’s name, address and be signed and dated by a company official.
- Each certification must be signed and dated by a company official of the Supplier and/or Processor attesting to the acceptances of the process performed of the required specification(s)

This QA clause applies to (but is not limited to) soldering, welding, brazing, heat treating, magneforming/swaging, plating/coating, cleaning/etching, passivation, electro polishing, acid pickling, impregnating, bonding, glass sealing, shot peening, bead blasting, silk-screening, magnetic particle inspection, penetrant inspection, and X-Ray/N-Ray inspection.

All employees who are involved with special processes should possess a valid certification of training in the related processes.

AV2A – WELD SAMPLE:

Weld one QA sample using weld schedule and production set-up prior to production run. Section sample and visually inspect at 20X magnification in accordance with the master traveler or drawing. Include sectioned sample with the parts shipment to AVEOX. In addition the supplier must reference the P.O. and part number on their certification.

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AV2B – HEAT TREAT:

All heat treat suppliers must comply with AVEOX Quality Clause AV2 along with this quality code. The supplier must provide a copy of the chart(s) that confirm that treat time and temperature requirements have been met.

AC2C – PLATING AND/OR COATING:

Provide a test panel and/or gauge block representative of the processed parts. Mask a portion of the panel or gauge prior to processing so that the base material can be accurately measured with a micrometer. In addition the supplier must reference the PO and part number on their certification.

AC2D – SOLDERING:

All soldering on deliverable product shall be soldered in accordance with J-STD-001 Class 3. The supplier shall provide certification that soldering was performed in accordance with one of these standards.

AV3 – GOVERNMENT SOURCE INSPECTION REQUIRED:

Government inspection is required prior to shipment from your plant. Upon receipt of the order, promptly notify and furnish a copy of the order to the government representative who normally services your plant so that appropriate planning for government inspection can be accomplished. If you do not have a regular government representative, contact your nearest Army, Navy, Air Force, or defense supply agency inspection office. In the event a representative or office cannot be located, notify the AVEOX purchasing agent immediately.

AV4 – AVEOX SOURCE INSPECTION:

AVEOX source inspection must be conducted at your facility prior to shipment. When the PO items are ready for inspection, notify the AVEOX purchasing department so that a mutually agreeable inspection time can be arranged. Drawings and/or other pertinent data as required by PO must be available to the AVEOX quality representative at the time product is presented.

AV5 – CERTIFICATION OF COMPLIANCE:

A Certification of Compliance addressing each item or lot of material shipped against this PO must accompany each shipment. AVEOX part numbers, Mil-Spec devices, or Supplier equivalent identification (see further details below) are referenced as a part of the certification format.

Mil-Spec fasteners used shall be of the latest revision of the applicable specification when received.

Supplier or sub-tier supplier certifications for specific processes or tests are acceptable provided they reference the exact requirements (i.e. drawing, specification, test or process that was performed) on their certification. Material/chemical/physical test reports and Certificate of Compliance (C of C) for processes performed by suppliers are kept on file at the supplier for verification.

Each primary supplier certification shall include:

- PO number
- Part number and revision, as shown on the Aveox drawing. (NOTE: for an assembly, include the assembly part number, any sub-component part number(s) fabricated by the supplier for this assembly, and all material and processes used therein if required in the PO. For raw stock, a supplier part number or simple description is acceptable when traceable to the AVEOX part number. In this case the C of C is annotated with the applicable AVEOX part number and accepted by a quality representative at AVEOX.)
- Revision letter - When a specific revision is required by the PO the C of C must reflect that the item is in compliance to the requested revision. Some items, such as raw materials (i.e. bar stock) may not have a revision. Otherwise, it is accepted that the item is to the latest drawing, and/or specification revision to the date of manufacture.

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- Quantity shipped
- Lot number (as applicable)
- The name and address of the company issuing the certification
- The date of issue
- The name of the company's authorized representative (optional)
- The representative's title (optional)

Note: A certification for ASTM, ASME, SAE, MS, BAC, AN, or NAS specification fastener(s), bolts, nuts, screws, studs, washers, rivets, pins, etc. is not required.

AV5A – SAMPLING INSPECTION:

Sampling inspection may be performed to accepted standards, or to AVEOX approved sampling plan.

AV5B – 100% INSPECTION REQUIRED:

Supplier shall perform 100% functional, electrical, dimensional inspection, as appropriate, on finished good to ensure integrity of the item/lot.

AV6 – RECORDS:

The Supplier shall maintain records for review by AVEOX or Customer/Regulatory Agency for a minimum of Ten (10) years or the duration of the contract, whichever is longer. Records include material certification, special processing, work order/traveler, test reports, inspection reports and other relevant records, nonconforming records, drawings and revision history, calibration records, first articles and any other applicable records. Suppliers should have complete traceability per AS9100 (latest revision) requirements. If required by purchase order, electronic media for NC programs, test programs or drawings may be required for archive purposes at the direction of the AVEOX buyer.

AV7 – CHEMICAL AND/OR PHYSICAL TEST REPORTS:

One (1) copy (as required by specification for each lot/batch/heat) must be attached to the packing sheet and must accompany each delivered shipment. The report must be identifiable to the product being delivered and must show that the material/parts delivered are acceptable.

AV8 – SHELF LIFE ITEMS:

Materials or articles having characteristics subject to degradation with age shall be marked in a manner to indicate the date of manufacture and expiration date in addition to standard identification requirements. (Suppliers of rubber goods are required to document the cure date of rubber molded goods and the compounding date of uncured rubber. Materials identified as requiring age sensitive controls must have 70% of their expected shelf life, from the date of manufacture, at the time of receipt at AVEOX. Special storage or handling conditions shall be included when applicable. Material Safety Data Sheets (M.S.D.S.) must be provided where there is a danger to health from material being purchased.

AV9 – PACKING / PACKAGING:

The supplier shall be responsible for ensuring that items provided under the Purchase Order are packaged in such a manner that the product/material integrity is preserved, contamination and corrosion are prevented, no physical damage occurs and it prevents damage, deterioration or loss in transit.

Packaging, when specified, shall be in accordance with the AVEOX specified requirements.

The supplier shall label the exterior of the package to ensure adequate identification needed to ensure identity of the product/material being shipped.

The supplier must ensure the handling and shipping methods for proper and on-time delivery without damage to the product/material.

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AV9A – ELECTROSTATIC DISCHARGE CONTROL:

The Supplier shall create and maintain an electrostatic discharge plan in accordance with the requirements of ANSI/ESD S20.20. The plan shall be submitted to AVEOX for approval. Changes to the approved electrostatic discharge plan shall be documented and submitted to AVEOX for approval.

AV9B – PRINTED CIRCUIT BOARD PACKAGING:

Each printed wiring board/flex shall be packaged individually in silver saver bags that conform to MIL-B-131H, Type I, Class I or II; MIL-B-81705B, Type I; or MIL-D-117E, Type III, Class E, Style 1. A desiccant and humidity indicator shall be placed inside each bag and the bags shall be heat-sealed. There shall be adequate space between the heat seal and the board to allow opening and resealing the bag a minimum of three times. At a minimum the part number, date code, and panel location designator or serial number shall appear on each bag.

AV9C – Packaging of Machined Product/Material:

The supplier shall clean and package each part in a clean, FOD free packaging to prevent abrasion, contamination, corrosion, and/or damage. If required, using an appropriate corrosion preventive prior to packaging. Package shall be pressed closed (zipped, heat sealed, taped). Unit packaging shall provide for safe removal, repackaging and storage of part(s)/material(s).

External opening and/or threaded part(s)/material(s) must be protected by the use of plugs and/or caps to prevent damage.

AV10 – SELLER CONTROLLED PRODUCTS:

One legible and reproducible copy of the part definition, drawing, catalog, or specification must accompany the initial shipment.

AV11 – QUALITY SYSTEM REQUIREMENTS:

Supplier must have completed and submitted an AVEOX Supplier Survey. Supplier's quality system is subject to verification and approval at all times by AVEOX Quality.

AV11A – QUALITY SYSTEM REQUIREMENTS:

Supplier must have completed and submitted an AVEOX Supplier Survey. Conformance to ISO9001, AS9100, NADCAP (latest revision) is required. Quality system is subject to verification and approval at all times by AVEOX Quality.

AV12 – METROLOGY SYSTEM REQUIREMENTS:

A calibration system in conformance with ANSI/NCCL Z540-3, ANS/ISO/IEC 17025 must be maintained that is traceable to the National Institute of Standards and Technology and provides positive identification of calibration status. Adequate process controls, records, and certifications shall also be sufficiently maintained to satisfy purchase order requirements. This Metrology system is subject to verification and approval at all times by AVEOX Quality.

AV13 – NONCONFORMING MATERIAL:

AVEOX preliminary review is required for all discrepant/nonconforming part(s)/material(s) detected during manufacturing and/or during supplier's inspections. Such part(s)/material(s) shall be segregated and controlled to ensure that no further work is performed until an AVEOX preliminary review disposition is obtained. The AVEOX Supplier Nonconformance Waiver (Form 6890185-00) **must** be requested through AVEOX Purchasing Department. If approved, a copy of the completed form must accompany each shipment of related parts.

AV14 – FUNCTIONAL MERCURY:

Each shipment is to be accompanied by one legible and reproducible certification stating that the delivered item does not contain any functional mercury (i.e. mercury that is required for the proper operation of the item), and is free from mercury contamination (i.e. during processing the item has not come in direct contact with mercury or any of its compounds).

AV15 – DOMESTIC MATERIALS:

Material certifications and associated test reports must be furnished to AVEOX for all designated domestic "specialty metals" per DFARS 252.225-7008 and DFARS 252.225-7009, should clearly state that all materials are melted in the United States or another qualifying country per DFARS 252.225-7002 (e.g. Australia, Belgium, Canada, Denmark, Egypt, Germany, France, Greece, Israel, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, United Kingdom, and Northern Ireland).

AV16 – FUNCTIONAL TEST / INSPECTION REPORTS:

Actual inspection/test reports must be attached to the packing sheet for each shipment. These reports must reference the purchase order number, supplier's name and address, part number, part name and, where applicable, serial numbers, and date and run time of units, including actual results. These reports must be validated by an authorized supplier representative. If equipment of sufficient capacity to inspect/test the articles is not available on-site, the items must be inspected/tested in a laboratory approved by AVEOX. In addition the supplier must reference the PO and part number on their certification.

AV17 – MATERIAL SAMPLE REQUIRED:

A material sample must be furnished to AVEOX with the first shipment of the product, unless otherwise specified. The size of the sample shall be determined by AVEOX or the material specification. The sample shall be cut or molded from the same material lot as the product supplied. In addition the supplier must reference the PO and part number on their certification.

Note: If the sample does not pass its material specification tests, the product supplied with the sample shall be considered unacceptable and may be returned to the supplier.

AV18 – FIRST ARTICLE INSPECTION REPORT:

Vendors that are certified to ISO9001/AS9100 must supply a First Article Inspection Report (FAIR) documented on the latest revision of the AS9102 form. ***The first article inspection report and the part used should be packaged separately, clearly identified, and shipped with the production parts on the first delivery of a new lot.***

Vendors that are not certified to ISO9100/AS9100, may submit their own detailed inspection report as long as it meets the following report requirements:

1. The supplier report must list AVEOX part number, part number revision, purchase order number.
2. The supplier report must list all drawing characteristics with the tolerances in an adjoining column, plus notes.
3. The supplier report must include evidence of conformance to all elements, including material and processes.
4. The supplier report must record each measured condition.
5. The supplier report must record any calibrated gage/tool & its serial number used for each drawing characteristics.

AVEOX reserves the right to witness the actual inspection and/or require spot checks to verify the data. ***The first article inspection report and the part used should be packaged separately, clearly identified, and shipped with***

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the production parts on the first delivery of a new lot. If subsequent shipments are from the same lot as a previous shipment a copy of that first article report is acceptable.

AV19 – CHANGES:

AVEOX must be notified in writing prior to any proposed changes to controlled design, parts, materials, fabrication methods, or processes that may affect function, interchangeability, or reliability. Facility location and/or ownership changes must also be reported to AVEOX in a timely manner.

AV20 – WORKMANSHIP STANDARDS:

Unless otherwise specified, workmanship standards shall be to best commercial practices.

AV21 – DROP SHIPMENTS:

Unless otherwise specified, the supplier shall notify AVEOX of part number and quantity when materials are dropped shipped.

AV22 – DROP SHIPMENTS FOR PROCESSING:

Unless otherwise specified, the processor shall notify AVEOX of the part number and quantity of materials received from the drop shipper before processing begins. Should the processor use sub-tier processors for additional functions this requirement shall be flowed down to the sub-tier processor(s).

AV23 – INFORMATION SUBJECT TO EXPORT CONTROL LAWS:

This document may contain information subject to the International Traffic in Arms Regulations (ITAR) or the Export Administration Regulation (EAR) of 1979. This information may not be exported, released, or disclosed to Foreign Nationals outside the United States without first complying with the export regulations.

A Foreign National is defined as any person who is not a US citizen, a lawful permanent resident as defined by 8 USC 1101(a)(20), or a protected individual as defined by 8 USC 1324b(a)(3). Foreign Person also means a corporation, business association, partnership, or any other entity that is not incorporated or organized to do business in the United States, as well as international organizations, foreign governments, and any agency or subdivision of foreign governments (e.g. diplomatic missions).

AV24 – IDENTIFICATION:

Each part(s)/material(s) delivered under the Purchase Order must be identified with a part number or other identification in agreement with the part(s)/material(s) ordered.

All purchased part(s)/material(s) are subject to inspection for compliance to the purchase order and all applicable quality clauses.

AV25 – LOT TRACEABILITY:

Parts to be delivered must be identified by serial/lot numbers (as specified in the purchase order), part number, and revision. Part(s) shall be traceable to the lots of raw materials used.

When two or more parts are joined in an assembly, manufacturing and inspection records shall identify each part by part number, revision, and if applicable, change number and serial/lot number.

Materials to be delivered shall be identified by lot or batch number, specification, and revision (including change number as applicable). Materials shall be traceable to ingredients and manufacturing and inspection records.

The Supplier may determine lot size unless otherwise specified in the purchase order or design document. Serial/lot numbers shall not be duplicated during the manufacture of the same part(s)/material(s). If part(s)/material(s)

are scrapped or rejected, their serial/lot numbers shall not be reused. Unless otherwise specified in the purchase order the Supplier shall maintain traceability records on file and available for review by AVEOX.

AV26 – FOD PREVENTION PROGRAM:

The Supplier shall maintain a Foreign Object Debris (FOD) control program assuring work is accomplished in a manner preventing foreign objects or material from entering and remaining in deliverable items or contaminating deliverable items. The following items constitute the minimum requirements under this clause:

1. The Supplier shall establish and implement a FOD program procedure.
2. The Supplier shall identify a single FOD control person responsible for implementing the FOD prevention program.
3. Employees shall be trained in FOD recognition and response.
4. Establishment and maintenance of a training program for the FOD program.
5. The Supplier shall document and investigate all FOD incidents assuring elimination of the root cause.
6. Housekeeping of the work area shall preclude the risk of FOD incidents.
7. Control of tools, parts, and material shall preclude the risk of FOD incidents.
8. Tooling, jigs, fixtures, test equipment, and handling devices shall be maintained in a state of cleanliness and repair to prevent foreign object damage.
9. Assessment of proposed process changes to determine potential FOD issues.
10. Procedures relating to closing inaccessible or obscured areas or compartments during assembly and packaging shall provide for inspection for foreign objects/materials.
11. AVEOX shall have the right to perform inspections and/or audits as a method of verification that the Supplier's FOD control program is functional, documented, and effective. The Supplier is strongly encouraged to expand and tailor the FOD program for their product lines.

AV27 – CONTROL OF COUNTERFEIT PARTS:

The Supplier shall implement a system for controlling counterfeit parts. The system shall require that all applicable parts (e.g. electrical components and fasteners) are procured from the Original Equipment Manufacturer (OEM) or an OEM-franchised or authorized distributor. If purchase from the OEM, OEM-franchised, or authorized distributor, is not possible or practical, the system shall provide a process for validating authenticity of the purchased parts including applicable certifications, test/inspection results, and all other documentation that provides identification and verification to design, traceability, and acceptable packaging and handling.

The Supplier shall certify in writing that parts are traceable to the Original Equipment Manufacturer (OEM), OEM-franchised, or authorized distributor. Should suspect/counterfeit parts be furnished under the purchase order, these items shall be impounded and destroyed by AVEOX. The Supplier shall promptly replace such suspect/counterfeit parts with parts acceptable to AVEOX and the Supplier shall be liable for all costs including, but not limited to, AVEOX's internal and external costs.

AV28 – AVEOX FURNISHED MATERIAL/COMPONENTS:

It is the Supplier's responsibility to inspect AVEOX-furnished material/components upon receipt for identification, count, condition, and assurance of the presence of required documentation. Nonconforming material or material not fitting the Supplier's tooling, fixtures, machines shall be identified, segregated, and withheld from further processing and AVEOX shall be notified.

The Supplier shall ensure that handling, preservation, and storage are such that material is protected at all times. AVEOX furnished tooling and/or excess material shall be identified on Supplier packing lists and returned at the completion of the order.

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When material is AVEOX-furnished and the Supplier Inspection Plan requires a certificate of conformance (C of C), record the words "AVEOX-Furnished" in the C of C along with the specification or part number and lot or serial number of the material. If acceptance data is supplied with the AVEOX-furnished material, include the data in the inspection data package when required by the Supplier Inspection Plan.