

FIRST ARTICLE INSPECTION SPECIAL REQUIREMENTS
(MANUFACTURER OR DISTRIBUTOR)

REVISION HISTORY

- Revision 2 replaces revision 01 dated 01/15/25.
 - Clerical updates including logo
- The applicable revision of this document is determined by:
 - The revision specified on the purchase order, or
 - The revision in effect at the time of the purchase order if no revision is listed on the purchase order.

REQUIREMENTS

1. When creating a FAI, the Seller shall:
 - 1.1. Enter the Part Number in Field 1 for all Forms exactly as called on the PO, including prefixes and suffixes.
 - 1.2. Enter the supplier code into Form 1, Field 11.
 - 1.3. Enter the PO Number and PO line item number into Form 1, Field 12. (Ex. 0123456789/00010)
2. For all design characteristics, the Seller shall perform a First Article Inspection (FAI) that conforms to the requirements of the current version (within 12 months of release) of AS9102, Aerospace First Article Inspection Requirement with the following exceptions:
 - 2.1. For castings/forgings, Seller shall perform the FAI on one piece per cavity for product of a die or mold, fully heat treated and inspected to the requirements of the drawing and/or CAD model, and shall be accompanied by:
 - Applicable certifications, chemical composition, and mechanical property test reports
 - 100% dimensional layout report or, when approved in advance, a non-contact scanning dimensional report. Prior to shipment, Seller shall send an additional copy of the dimensional report to the ESAero Buyer
 - Magnetic particle, liquid penetrant, eddy current and/or ultrasonic inspection report, whichever is applicable.
 - Radiographic inspection report, radiographic films/images, and radiographic shooting sketch for castings. Foundry control x-rays shall be submitted for AMS2175 Class 4 castings.
 - 2.2. Seller shall provide objective evidence (job travelers, packing slips, etc.) for deliveries from old stock to justify FAI validity from last production run if an FAI is not performed.
 - 2.3. In addition to AS9102 criteria, Seller shall perform a full or partial FAI, with no exceptions, for any of the following conditions. If there are no affected characteristics from the changes below, Seller shall notate “No Affected Characteristics” on Form 1, Field 14
 - PO Part Number and Part Number prefix and suffix changes
 - Supplier Name/Ordering Address changes. 2.3.3. Revision changes to the ESAero Technical Data Package.

- A lapse in production greater than 2 years. Two years is based on last delivery to ESAero to the following ESAero purchase order delivery date. For cases where there are no impacted characteristics, additional rationale shall be provided on Form 1, Field 14 (e.g. “Travelers and work instructions are at the same revision as previous order”, “Continuous production on the same part for a different customer”).
3. The requirements of AS9102 are applicable to all lower-level detailed material/assemblies which comprise the material on the PO. This includes parts manufactured, processed, assembled, tested, or inspected at sub-tier suppliers. Seller shall flow down the requirements to all sub-tier suppliers, as applicable. By extension, all sub-tier supplier FAI reports become an integral part of the Seller’s FAI documentation.
 4. For all Seller design characteristics, the Seller shall perform First Article Inspections (FAI) that conform to the requirements of the current version (within 12 months of release) of AS9102, Aerospace First Article Inspection Requirement.
 - 4.1. Seller shall document and maintain records of these verifications. These records shall be retained in accordance with the record retention requirements of the PO.
 5. If Source Inspection is required, the Seller shall have the FAI, including partial or re-accomplishment FAIs, approved prior to Source Inspection
 - 5.1. Requirements for Source Inspection are located within the Source Inspection Quality Notes that may be assigned to the PO
 6. Seller shall not ship material until the FAI is approved, unless authorized in writing by ESAero.
 7. Seller shall include the following supporting data with each FAI submission:
 - Sub-assembly and detail reports listed on Form 1 for ESAero drawing part numbers,
 - Bubbled drawings correlating to AS9102 Form 3, Field 5 (characteristic number),
 - Objective evidence as required by AS9102.
 - Certifications, i.e. heat treat certificates, certificates of conformance, etc.
 - Objective evidence as required by the attached hint sheet.
 8. FAI Planning documentation and objective evidence shall be available for review upon request
 9. Unless specifically authorized, any parts fabricated prior to receipt of written First Article Approval by ESAero will be at the Seller’s risk.
 10. There is no recurring deliverable data to ESAero required by this document once the Seller’s initial FAI has been approved by eSAero unless a partial FAI or full FAI is required per AS9102 or specifically requested by ESAero (this Quality Note being assigned on the PO does not constitute a specific request unless the previous FAI has not been approved by ESAero)
 11. The organization performing the FAI must be the manufacturer/processor of the item

DATA SUBMISSION SUMMARY

- AS9102 First Article Inspection Forms 1-3
 - Sub-assembly and detail reports listed on Form 1 for ESAero drawing part numbers,
 - Bubbled drawings correlating to AS9102 Form 3, Field 5 (characteristic number),
 - Objective evidence as required by AS9102.
 - Certifications, i.e. heat treat certificates, certificates of conformance, etc.
 - Objective evidence as required by the attached hint sheet.
 - **For castings/forgings:**
 - Applicable certifications, chemical composition, and mechanical property test reports
 - 100% dimensional layout report or, when approved in advance, a non-contact scanning dimensional report. Prior to shipment, Seller shall send an additional copy of the dimensional report to the ESAero Buyer
 - Magnetic particle, liquid penetrant, eddy current and/or ultrasonic inspection report, whichever is applicable.
 - Radiographic inspection report, radiographic films/images, and radiographic shooting sketch for castings. Foundry control x-rays shall be submitted for AMS2175 Class 4 castings.

NOTES

- AS9102 specifies when to perform a new full FAI or partial FAI in section 4.6.
- ESAero reserves the right to witness and/or participate in the FAI.
- ESAero reserves the right to delegate first article verification to a third party.
- ESAero reserves the right to review and/or approve Seller's and Seller's sub-tier supplier's FAI documentation package.
- When ESAero Source Inspection is not required, the Seller may ship material per the terms of the PO once the FAI has been approved.
- To prevent delays in shipment, Seller should submit FAIs for review/approval at least 5 business days (10 business days for International Sellers) prior to the date of shipment to allow adequate time for review/approval.