

FIRST ARTICLE INSPECTION REPORT

GUIDANCE ON ACCEPTANCE CRITERIA

Leo Martinez/ Tomy Kunnasseril: Revision 12-11-2025.

FIRST ARTICLE INSPECTION REPORT (FAIR) - FORMS

- AS 9102 REV C stipulates the following:

4.7 Documentation

4.7.1 Forms

- a. Appendix B contains forms that comply with the documentation requirements of this standard. Forms other than those depicted in Appendix B may be used; however, they shall contain all “Required” and “Conditionally Required” information and have the same field reference numbers.

1. (R) - Required: This is mandatory information.

2. (CR) - Conditionally Required: This field shall be completed, when applicable to the product (e.g., serial number shall be entered when the product has an associated serial number). When not applicable may be left blank.

3. (O) - Optional: This field is provided for convenience; the field may be left blank.

NOTE: Continuation sheets and insertion of additional rows are acceptable.

- b. All forms shall be completed either electronically or in permanent ink.

- c. All forms shall be completed in English or in a language specified by the customer.

FIRST ARTICLE INSPECTION REPORT (FAIR) - FORMS

- All forms must be checked for compliance with AS 9102 Rev C and the requirements of this guide.
- Forms may be created by the supplier. They do not need to display AS9102 Rev C on the form, but they may reference the standard.
- All fields on the forms shall be verified for compliance, completeness, correctness, and accuracy.
- **CED Requirements:**
 - Conditionally Required (CR) and Optional (O) fields must be completed.
 - If a field cannot be completed because it does not apply, “N/A” shall be entered in that field.
 - When suppliers use their own forms that include Optional fields, CED still requires those fields to be completed appropriately—including use of “N/A”—to maintain **consistency and good documentation practices**.
 - For fields that include pre-printed lines underneath, the required information (including “N/A”) shall be entered on the first line directly beneath the field.
- In accordance with CED’s P900 – Supplier Quality Manual, FAIs must include a bubbled drawing with all characteristics accounted for including all dimensions, itemized tables, figures, notes and information in the title blocks.

Optional

- When a Partial FAI is submitted, a baseline PN and Reason for the Partial FAI are required.
- When a Full FAI is submitted, only the reason for the Full FAI is required. The Baseline PN is not needed—enter 'N/A' instead of leaving the field blank.

1. Part Number:	2. Part Name:	3. Serial Number:	4. FAIR Identifier:
5. Part Revision Level:	6. Drawing Number:	7. Drawing Revision Level:	8. Additional Changes:
9. Manufacturing Process Reference:	10. Organization Name:	11. Supplier Code:	12. Purchase Order Number:
13. Detail: <input type="checkbox"/> - Assembly: <input type="checkbox"/>	14. Full FAI <input type="checkbox"/> Partial FAI: <input type="checkbox"/> Baseline Part Number (including revision level): Reason for Full / Partial FAI:		
a) If the part number above is a detail part only, go to field 19. b) If the part number above is an assembly, go to the "INDEX" section below.			
INDEX of part numbers or sub-assembly numbers required to make the assembly noted above.			
15. Part Number:	16. Part Name:	17. Part Type:	18. FAIR Identifier:
19. Does FAIR Contain a Documented Nonconformance(s)? Yes <input type="checkbox"/> No <input type="checkbox"/>			
20. FAIR Verified By:			21. Date:
22. FAIR Reviewed/Approved By:			23. Date:
24. Customer Approval:			25. Date:
26. Comments:			

Required

Conditionally Required

Optional

B.5 FORM 3 - CHARACTERISTIC ACCOUNTABILITY, VERIFICATION, AND COMPATIBILITY EVALUATION

FORM 3 - REQUIREMENTS

- CED documents the definition of characteristics (classes) for each part in their **Inspection Classification Package (ICP)**
- In the case a ICP was not provided at the time of quoting, Supplier Quality, or the buyer, may reference existing ICPs to guide vendors in assigning the ‘Class’ designation for characteristics under Field 7- see screenshot.
- *Characteristic designators pertaining Certificates of Conformance and drawing Notes will be identified as: “CERT” and “NOTE” respectively- refer the screenshot*

FORM 3: CHARACTERISTIC ACCOUNTABILITY, VERIFICATION, AND COMPATIBILITY EVALUATION							
1. Part Number:				2. Part Name:		3. Serial Number:	4. FAIR Identifier:
6074102				JACKET		N/A	125643
Characteristic Accountability				Inspection / Test Results			
5. Char. No.:	6. Reference Location:	7. Characteristic Designator:	8. Requirement:	9. Results:	10. Designed / Qualified Tooling:	11. Nonconformance Number:	14. Additional Data / Comments: Tool ID & Calibration due date
1	N/A	CERT	Material: Cres 15-5 AMS 5659	Pass	Cert	N/A	Heat# 125678
2	N/A	CERT	Heat treat: H1025 AMS-2759/3	Pass	Cert	N/A	Cert# 2276
3	N/A	CLASS C	Break all sharp corners, .005 - .015	0.008	Optical Comparator	N/A	ID# 2563; 07-05-2026
4	N/A	CLASS D	Fillet Radii 0.02 ± .010	0.023	Optical Comparator	N/A	ID# 2563; 07-05-2026
5	N/A	CLASS D	Machine Finish 125	88	Microfinish Comparator	N/A	ID#2243; 10-10-2026
6	N/A	CLASS D	Runout on coaxial diameters to be 0.005 T.I.R maximum	0.0023	CMM	N/A	ID# 8645; 06-05-2026
7	N/A	CLASS C	Remove all burrs	Pass	Visual	N/A	N/A
8	N/A	CLASS D	Note. 1: All Ø's concentric within 0.002	0.0008	CMM	N/A	ID# 8645; 06-05-2026
9	N/A	CERT	Note. 2: Penetrant inspect per ASTM E1417 Type I, Method A, Sensitivity Level 3. No cracks allowed.	Pass	Cert	N/A	Cert# 3236
10	N/A	CERT	Note. 3: Passivate per AMS 2700, Method I, Type 8, Class 3. No Humidity test required.	Pass	Cert	N/A	Cert# 2212
11	N/A	CLASS D	45° ± 3°	44°	Impression/ Optical Comparator	N/A	ID# 2563; 07-05-2026
12	N/A	CLASS D	Ø 0.400 ± 0.005	0.401	Micrometer- O.D	N/A	ID# 1223; 03-02-2026
13	N/A	CLASS D	Ø 0.255 ± 0.005	0.256	Chamfer Gauge	N/A	ID#8226; 04-04-2026
14	N/A	CLASS C	Ø 0.228 +0.006/-0.000	0.231	Plug Gauge	N/A	ID# 2222; 03-06-2026
15	N/A	CLASS D	45° ± 3°	46°	Optical Comparator	N/A	ID# 2563; 07-05-2026
16	N/A	CLASS C	0.025 +0.010/-0.000	0.031	Optical Comparator	N/A	ID# 2563; 07-05-2026
17	N/A	CLASS D	0.130 +0.010/-0.000	0.135	Drop Indicator	N/A	ID# 6655; 02-21-2026
18	N/A	CLASS D	45° ± 3°	46°	Impression/ Optical Comparator	N/A	ID# 2563; 07-05-2026
19	N/A	CLASS C	0.015 +0.005/-0.000	0.018	Impression/ Optical Comparator	N/A	ID# 2563; 07-05-2026

FORM 3 - REQUIREMENTS

- For Field 8. Requirement, the preferred entry is the description exactly as stated on the print (including symbology). It is also acceptable to use the ASME Y14.5 designator along with its corresponding naming convention.
- For Field 10. Design Tooling, include the gauge or equipment used to inspect the characteristic, gauge identification# and calibration due date (e.g., Caliper, ID# 2526, Calibration due date 02-15-2026). If there is not sufficient space in this field, enter the Gauge ID and Expiration Date in Field 14, as shown in the screenshot.

FORM 3: CHARACTERISTIC ACCOUNTABILITY, VERIFICATION, AND COMPATIBILITY EVALUATION							
1. Part Number:				2. Part Name:		3. Serial Number:	4. FAIR Identifier:
6074102				JACKET		N/A	125643
Characteristic Accountability				Inspection / Test Results			
5. Char. No.:	6. Reference Location:	7. Characteristic Designator:	8. Requirement:	9. Results:	10. Designed / Qualified Tooling:	11. Nonconformance Number:	14. Additional Data / Comments: Tool ID & Calibration due date
1	N/A	CERT	Material: Cres 15-5 AMS 5659	Pass	Cert	N/A	Heat# 125678
2	N/A	CERT	Heat treat: H1025 AMS-2759/3	Pass	Cert	N/A	Cert# 2276
3	N/A	CLASS C	Break all sharp corners, .005 - .015	0.008	Optical Comparator	N/A	ID# 2563; 07-05-2026
4	N/A	CLASS D	Fillet Radii 0.02 ± .010	0.023	Optical Comparator	N/A	ID# 2563; 07-05-2026
5	N/A	CLASS D	Machine Finish 125	88	Microfinish Comparator	N/A	ID#2243; 10-10-2026
6	N/A	CLASS D	Runout on coaxial diameters to be 0.005 T.I.R maximum	0.0023	CMM	N/A	ID# 8645; 06-05-2026
7	N/A	CLASS C	Remove all burrs	Pass	Visual	N/A	N/A
8	N/A	CLASS D	Note: 1: All Ø's concentric within 0.002	0.0008	CMM	N/A	ID# 8645; 06-05-2026
9	N/A	CERT	Note: 2: Penetrant inspect per ASTM E1417 Type I, Method A, Sensitivity Level 3. No cracks allowed.	Pass	Cert	N/A	Cert# 3236
10	N/A	CERT	Note: 3: Passivate per AMS 2700, Method I, Type 8, Class 3. No Humidity test required.	Pass	Cert	N/A	Cert# 2212
11	N/A	CLASS D	45° ± 3°	44°	Impression/ Optical Comparator	N/A	ID# 2563; 07-05-2026
12	N/A	CLASS D	Ø 0.400 ± 0.005	0.401	Micrometer- O.D	N/A	ID# 1223; 03-02-2026
13	N/A	CLASS D	Ø 0.255 ± 0.005	0.256	Chamfer Gauge	N/A	ID#8226; 04-04-2026
14	N/A	CLASS C	Ø 0.228 +0.006/-0.000	0.231	Plug Gauge	N/A	ID# 2222; 03-06-2026
15	N/A	CLASS D	45° ± 3°	46°	Optical Comparator	N/A	ID# 2563; 07-05-2026
16	N/A	CLASS C	0.025 +0.010/-0.000	0.031	Optical Comparator	N/A	ID# 2563; 07-05-2026
17	N/A	CLASS D	0.130 +0.010/-0.000	0.135	Drop Indicator	N/A	ID# 6655; 02-21-2026
18	N/A	CLASS D	45° ± 3°	46°	Impression/ Optical Comparator	N/A	ID# 2563; 07-05-2026
19	N/A	CLASS C	0.015 +0.005/-0.000	0.018	Impression/ Optical Comparator	N/A	ID# 2563; 07-05-2026