CHEMICAL AND PHYSICAL ANALYSIS OF MATERIALS

REVISION HISTORY

- Revision 4 is the initial revision.
- 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. Seller shall provide a report of analyses or tests conducted to assure materials delivered, or materials used in the parts delivered, conform to the specifications required by this purchase order with each shipment of parts or materials.

   1.1. For raw metals, test analysis reports shall indicate each chemical element present and the actual quantity of each expressed as a percent of total.

   1.2. Physical properties listed in test analysis reports shall be reported with actual values and specification limits recorded.

   1.3. If the applicable specification does not define the tests that are required to be performed on each lot/batch/heat, the Seller shall test and report all requirements in the specification.

   1.4. Material not purchased to a Buyer or industry standard specification will be accepted with a test report to the manufacturer’s standard requirements.

2. The exact format of the submitted data may vary by Seller to Seller, but shall contain the following minimum requirements:

   2.1. Original material producer's name

   2.2. Purchase order number

   2.3. Material part number (with revision if applicable), and/or trade name

   2.4. Drawing(s) and/or specification number(s) with revision (if applicable)

   2.5. Material Heat/Lot/Batch Numbers

   2.6. Serial numbers (applicable when S/N is specified)

   2.7. Date of manufacture (DOM), date of ship (DOS), date of packaging (DOP), and date of mix (when applicable)

   2.8. Date of test/inspection

   2.9. Quantity of units tested, including units of measure (as applicable)

   2.10. Test results, units of measure, methods or standards

2.11. Conditions and parameters of testing as stated in the specification or manufacturer's requirements

2.12. Traceability of material to the test analysis report; If traceability is not already established with the required items listed above, then further information may be added

2.13. Material Certification Report(s) if applicable

2.14. Seller's authorized QA signature (or electronic equivalent).

3. International Sellers shall contact the Raytheon Buyer or Subcontract Manager to receive International Traffic in Arms Regulations (ITAR) authorizations, such as, but not limited to: Manufacturing License Agreement (MLA) or Technical Assistance Agreement (TAA), prior to outsourcing analysis or tests.

DATA SUBMISSION SUMMARY

- Seller to deliver the following data to Buyer for information as required by this document.
    - Each shipment will include physical and chemical reports of analysis or results of tests conducted.

NOTES

- Seller may submit mill analysis or material manufacturer analysis in lieu of Seller analysis or independent laboratory analysis on materials furnished/utilized on this purchase order, provided analyses are traceable to material furnished or utilized, and the above requirements are met.
- Physical properties are not applicable to die castings.
- For Aluminum stock, the report(s) will indicate the raw materials used (e.g., bar, AL Alloy 6061-QQ-225/8,T6) in the part, but the corresponding standard chemical composition chart is not required.