



NASA Dryden Flight Research Center
PROCUREMENT QUALITY REQUIREMENTS



Q-3 Revision B / Certified Material Test Report and Aircraft Fastener Testing

Supplier shall include in each shipment the raw material manufacturer's test report.

Fasteners purchased for aircraft use must conform to the specifications to which they are represented to be manufactured, performed by accredited laboratories engaged in fastener testing, and requiring inspection, testing and certification in accordance with standardized methods.

Suspect Counterfeit Materials

The supplier shall ensure that there is no unauthorized material substitution or improperly processed material.

Raw Material Traceability:

All certifications and test reports required below must be traceable through some method of identification (i.e. heat, lot, part & serial number, purchase order, invoice number etc.) from mill through finished product delivery.

Manufacturer Test Certifications

The supplier shall include with each shipment the raw material manufacturer's test report (i.e. mill test report) that states that the lot of material furnished has been tested, inspected, and found to be in compliance with the applicable material specifications. The test specimen shall come from the same thickness/diameter that is being supplied. The test report shall contain the following information:

- Test specimen gage diameter per ASTM E8.
- Specifications including revision numbers or letters to which the material has been tested and/or inspected.
- Heat and lot number(s).
- When the material specification requires quantitative limits for chemical, mechanical, or physical properties, the test report shall contain the actual test and/or inspection values obtained.

Processing Certifications

Certifications must be provided to demonstrate that all required processing (i.e. forming, heat treating, thermal cycling, conversion, etc.) has occurred and the results meet all specification and testing requirements.

No unauthorized processes (i.e. re-melt) shall be allowed.

Non-Destructive Evaluation Certifications

When Non-Destructive Evaluation is required the supplier shall provide a Certificate of Conformance (C of C) to certify that the material meets the related requirements.

Independent Laboratory Testing

If the material was altered (forged, rolled, heat treated etc.) subsequent to procurement from the mill and prior to delivery to NASA Dryden, an Independent Laboratory Test shall be submitted with the material. The testing must be performed after all subsequent conversion processing. The test report must comply with requirements above for Manufacturer Test Certifications.



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Prohibited

The supplier shall not provide material that has been machined down, sawed or modified by any other means to achieve the requested thickness or diameter.

The supplier shall not substitute cut plate for bar stock

Prohibited Material Suppliers

The supplier and sub-tier supplier(s) shall not provide any material or products containing material from Western Titanium Inc. and Mach 2 Metals under this Contract/Purchase Order.

Approved

Steve Wildes

Gary May

Jaime Garcia

//Signed//

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