

The following quality requirements shall apply to all purchase orders issued by JPM.

Q1

A Certification of Compliance, on a supplier letterhead, must accompany all shipments and must be legible. Certifications must state compliance to the latest revision of company and/or industry-wide specifications, unless otherwise required by JPM's purchase order, and all applicable contents and measurable features as listed on the purchase order and/or drawing. For each special process performed (if applicable) supplier must include a statement of certification to include grade or class. Certification must include as a minimum: purchase order number, part number and/or description, material code, revision, heat, lot or batch number, and quantity. The Certification must be signed or otherwise marked approved by an authorized individual.

Q2

No changes in materials, processes, procedures, design, or software which may affect fit, form, or function shall be made without prior written approval from JPM. The supplier must notify JPM of changes of suppliers and changes of manufacturing facility location and, where required, obtain organization approval.

Q3

The supplier shall have a quality management system that can be documented in a quality manual. Copies of the latest revision of the quality manual shall be made available to JPM upon request.

Q4

The supplier shall ensure that the personnel involved in the manufacture and inspection of the materials or components are qualified to perform these tests. Training records shall be made available upon request.

Q5

The supplier shall notify JPM of any nonconforming product and shall obtain written approval prior to shipping to JPM.

Q6

JPM, JPM's customers, and regulatory authorities are to have right of access at any level of the supply chain and all applicable records during normal business hours. Right of access also includes the ability to source inspect product and to audit the quality system. The supplier shall provide appropriate area, equipment, and personnel to allow completion of such reviews.

Q7

Records of conformity, inspection reports, material certifications, or any other pertinent quality records that are created and maintained by the supplier shall be retained for at least 15 years, unless otherwise specified on purchase order.

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Q8

Traceability shall be maintained by the supplier to specific lots, including material types, and shall be made available to JPM upon request.

Q9

The supplier shall maintain a calibration system in conformance with national or international standards.

Q10

The supplier shall provide packaging and preservation in accordance with the best commercial packaging methods or JPM specification, to ensure against damage or deterioration of the material or components and for safety in handling during shipment.

Q11

Material Declaration must be provided that materials delivered to JPM are RoHS compliant. RoHS restricted materials include lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ether (PBDE).

Q12

All requirements of this purchase order must be flowed down to all sub-tier suppliers.

Q13

The supplier shall ensure that personnel are aware of their contribution to product or service conformity and product safety as well as the importance of ethical behavior.

Q14

The supplier must plan, implement, and control processes, appropriate to the organization and the product or services provided, for the prevention of counterfeit or suspect counterfeit parts in products delivered to JPM.

The following requirements shall apply only when they are specified on the individual purchases orders.

S1

Manufacturer's material certification must accompany each shipment. Certification must contain actual chemical and physical data in accordance with the latest revision of all applicable specifications and standards listed on purchase order or print.

S2

DFAR 252-225-7014 Alt. 1: Preference for Domestic Specialty Metals Certification must state that the materials supplied meet the requirements of DFAR 252-225-7014 Alt. 1

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Any specialty metals used in any deliverable products must be melted in the United States or a qualifying country as indicated in subsection 225.872-1 of the DFAR supplement. Countries included are as follows:

- Australia
- Belgium
- Canada
- Denmark
- Federal Republic of Germany
- France
- Greece
- Israel
- Italy
- Luxembourg
- Norway
- Portugal
- Spain
- Sweden
- Switzerland
- Turkey
- United Kingdom of Great Britain and Ireland

The definition of “**specialty metals**” is as follows:

- Steel with a maximum alloy content exceeding one or more of the following limits: manganese, 1.65 percent; silicon, 0.60 percent; or copper, 0.60 percent; or containing more than 0.25 percent of the following elements: aluminum, chromium, cobalt, columbium, molybdenum, nickel, titanium, tungsten, or vanadium. (this includes stainless steel)
- Metal alloys consisting of nickel, iron-nickel, and cobalt base alloys containing a total of other alloying metals (except iron) in excess of 10 percent;
- Titanium and titanium alloys; or zirconium and zirconium alloys.

S3

DFAR 252-225-7016: Restriction on the Acquisition of Roller Ball Bearings

Certification must state that the components supplied meet the requirements of DFAR 252-225-7016.

S4

Dimensional inspection reports required. As a minimum, these reports must contain 100% dimensional characteristics and actual results. Unless otherwise specified, sampling must meet ANSI 1.4-2003, single sampling plan, special inspection level S-3, AQL 1.0 or equivalent requirements as a minimum.

S5

Test data must be furnished with shipment and must be traceable by purchase order number, part number, lot, or batch.

S6

Material Safety Data Sheet (MSDS) required.

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S7

AS13100 AESQ Quality Management System Requirements for Aero Engine Design and Production Organizations applies:

Includes but not limited to:

- a. Advanced Product Quality Planning (APQP) and Control Plan
- b. All Applicable RM13XXX series specifications
- c. Production Part Approval Process (PPAP)
- d. Potential Failure Mode and Effects Analysis (FMEA)
- e. Measurement System Analysis (MSA)
- f. Statistical Process Control (SPC)
- g. Process Control Plans: These will be generated to show detailed control of a specific process e.g., Plating.
- h. Process Capability Studies: These will be generated to show a $Cpk \geq 1.33$.
- i. Inspection Release Plans: These will be generated to show specific Key Features to be checked on a drawing and sample sizes to be adhered to.

Exceptions to any elements to AS13100 must be received in writing from JPM before shipment.

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