



Purchase Order Quality Clauses

Q1 QUALITY CLAUSES NOT REQUIRED

Non shippable items, for Ross Name Plate (RNP) internal use only.

Q2 SUPPLIER INSPECTION SYSTEM REQUIREMENTS MIL-I-45208A

Supplier's inspection system shall be in compliance with the requirements of MIL-I-45208A. RNP reserves the right to maintain surveillance or to assign resident quality assurance personnel at the supplier's facility.

Q3 SUPPLIER QUALITY SYSTEM REQUIREMENTS AS9100

Supplier's "Quality System" shall be in compliance with the requirements of AS9100 (Aerospace Standard).

Q4 FIRST ARTICLE INSPECTION (FAI) ON ALL NEW PRODUCTS

FAI and/or test are required on all new products. Results will be documented and unit will be identified.

Q5 FIRST ARTICLE INSPECTION (FAI) BY SELLER

FAI and/or test shall be performed on a production manufactured part/assembly by seller at seller's facility. Results shall be documented on a report identified as "First Article Inspection Report" (FAIR). The FAI unit will be identified (bag or tag) and shipped separately or with production lot (as required by PO) accompanied by FAIR attached to the shipper. RNP will conduct FAI and/or test in addition to and after seller's FAI, the results of which will be documented.

Q6 FIRST ARTICLE INSPECTION (FAI) BY RNP AT SELLER'S FACILITY

FAI and/or test shall be accomplished at the Seller's facility before the balance of order may be shipped. RNP will conduct or witness inspections and/or tests and the results will be on a report form identified as "First Article Inspection Report".

Q7 CHEMICAL AND PHYSICAL TEST REPORTS

Each shipment must be accompanied by one (1) legible and reproducible copy of all chemical and physical test reports identifiable with materials ordered. The reports must contain the name of the authorized representative of the agency performing the test and must assure conformance to specification requirements.

Q8 DATED MATERIAL (SHELF LIFE CONTROLLED)

Time sensitive material shall be furnished with a minimum of 80% of its shelf life remaining at date of shipment. Shelf life duration and date of expiration shall be listed on material certification.

Q9 RAW MATERIAL IDENTIFICATION

Sheet or Plate Stock - Metallic or Non-Metallic:

Each sheet or plate shipped shall be identified by continuous stenciling of sufficient size to be readily legible, applied by permanent ink or dye of contrasting color, non-injurious to metal surfaces and not soluble.

Q11 NON-DESTRUCTIVE TEST/INSPECTION IDENTIFICATION

All parts found to be acceptable by non-destructive testing methods are to be so identified by placing the proper acceptance test/inspection stamp on such acceptable parts. All parts found to be unacceptable are to be so identified by placing the proper withholding stamp on such defective parts. In those cases where NDT testing is being performed by a lower-tier supplier and his acceptance stamp is obliterated by further processing, a copy of the lower-tier's certification must accompany shipment to RNP.

Q12 RNP PROCESSING

Seller shall assure that any process and or non-destructive test (NDT) requested on this purchase order shall be performed only by sources currently appearing on the RNP's "List of Approved Vendors" for the specific type of work to be conducted.



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Q13 PROCESS CERTIFICATIONS

Each shipment shall be accompanied by one (1) legible and reproducible copy of a certificate containing the name of an authorized representative for all processes used, such as heat treating, welding, NDT, surface preparation and treatment, etc. The certificate shall include the processing used, the specification to which they conform and the name of the agency that performed them if other than the Seller. When the parts are serialized, serial numbers shall be included on the certification.

Q14 CERTIFICATE OF CONFORMANCE

Each shipment shall be accompanied by one (1) legible and reproducible copy of a "Certificate of Conformance" containing the name of an authorized representative stating that the items ordered were produced in accordance with and conform in all respects with the contractual requirements including specifications, drawings, marking requirements, and physical item identification. When the parts are serialized, serial numbers shall be included on the certification.

Q15 CERTIFICATION OF MATERIAL CONFORMANCE

Each shipment shall be accompanied by one (1) legible and reproducibly copy of a "Certificate of Conformance" containing the name of an authorized representative for each material used to fabricate the items ordered in this "Purchase Order".

Q16 REQUIREMENTS FOR 100% INSPECTION BY SELLER, DETAILS

Seller shall perform 100% detail component and end item inspection of all items on this Purchase Order to ensure conformance to drawing and specification requirements. Evidence of such an inspection must be on file and available for review by RNP. Each part must be identified as acceptable by placing an inspection acceptance stamp on the part(s) as applicable.

Q17 INTER COMPANY SHIPPERS

When products are shipped from one RNP facility to another, the certification log number of the product being shipped must be recorded on the shipping document.

Q18 OUT TIME REQUIREMENTS

Supplier must record the "out-time" of exposure sensitive material (pre-preg) on packing list.

Q19 SPECIALTY METALS

DFARS 252.225-7014, Preference for Domestic Specialty Metals, Alt. I Basic Requirements:

The supplier shall provide material in compliance with DFARS 252.225-7014. The origin of the material shall be from a qualified country in accordance with DFARS 225.872-1. Refer to DFARS 252.872-1 for a current listing of qualifying countries.

(Warning! – Procurement of raw material from a casting or rolling mill in the United States or qualifying country does not necessarily mean the raw material was melted in the United States or a qualifying country. All applicable certifications must be scrutinized to determine the country where the metal was melted.)



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Q20 IDENTIFICATION OF SHELF LIFE

The supplier will identify each item (by unit container) with the following information:

- Name on material, part number, type, size, quantity
- Date of manufacture (initial date critical life period established)
- Expiration date (termination of usable life of product)

Special storage and handling conditions will be observed by product user.

NOTE: Date of manufacture and expiration date of product should be recorded on certification document and/or shipper. Material is not acceptable with over 1/3 of shelf life expired.

Q21 INITIATED CHANGES

The Supplier shall incorporate, at the specified and agreed upon effectivity points, all changes initiated by RNP and communicated to the Supplier through a formal Contract change and/or amendment. The RNP Buyer is the single point of contact for all supplier Contract changes. Such changes may be in the form of revised drawings, specifications, tests, inspection or fabrication methods, etc., and may apply to products as well as to the Supplier's management and administrative systems. The Supplier's business management system shall include appropriate controls and records, (including controls at the Supplier's sub-tier sources) which provide objective evidence that changes and effectivity points were incorporated as required by the Contract. Objective evidence may be in the form of date, lot, serial number, revision letter, or other positive identification methods. Such records are subject to on-site verification by RNP at the Supplier's facilities or the facilities of the Supplier's sub-tier sources.

Q22 SUPPLIER INITIATED CHANGES

The Supplier may not make any changes in product design, drawings, performance specifications, materials or processes to the qualified product baseline that will result in a Class I change (defined as changes that affect Fit, Form, Function, Reliability, Maintainability or Safety) without specific written approval by RNP in writing prior to making changes as identified above in products, processes or data. When applicable, the Supplier shall flow-down this requirement to the Supplier's sub-tier sources. The Supplier may make changes on products under Supplier's proprietary engineering design control that result in a Class II change (any change other than Class I that do not affect any of the Class I criteria shown above). The Supplier shall furnish a copy of the Class II change prior to the initial delivery of product(s) to RNP, for RNP concurrence that the Class II change does not violate the above requirements. Any violation of the requirements identified in this paragraph may result in the recall and replacement of delivered product or re-qualification at the supplier's expense.

Q23 UNAUTHORIZED PRODUCT CHANGES OR SUBSTITUTIONS

The Supplier may not make any changes, substitutions or regrades to any products or services required by the Contract, drawing, specification, standard, or other applicable document without prior written authorization by RNP. Authorization may be contingent on RNP conducting a review of the proposed product or service changes at the Supplier's facilities, or the facilities of the Supplier's sub-tier sources.



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Q24 UNAUTHORIZED PRODUCT REPAIRS & SALVAGE

The Supplier may not perform any repairs on products to be delivered to RNP unless such repairs are specifically permitted by the applicable drawing or specification or have been authorized by the RNP Material Review Board (MRB) for each occurrence. Repairs are defined as any welding, brazing, soldering, plugging, peening, bushing, or use of paints, adhesives, plating, or use of any other repair practice or method, including reworking products by removing (stripping) and re-plating. When the Supplier's shipment includes products dispositioned by RNP MRB for authorized product repair, the products shall be segregated and marked or tagged so as to permit easy identification upon receipt at RNP. The Supplier's packing list/shipper shall include a reference to the RNP rejection document serial number that authorized the repairs.

REWORK - In those cases where products have been subjected to rework or RNP MRB approved repair and/or salvage processes, the certifications shall include a description of the process used and the quantity of parts subjected to the process.

Q25 COUNTRY OF ORIGIN

The country of origin for raw materials supplied shall be indicated on the Certificate of Conformance.

Q26 CALIBRATION SYSTEM

The supplier's calibration system shall be in compliance with ISO/IEC 17025, ISO10012-1, AS9100, ANSI Z540.1/.3 (MIL-STD-45662) or equivalent.

Q27 FOREIGN OBJECT DAMAGE (FOD) CONTROL:

The supplier shall ensure that Foreign Objects and subsequent Foreign Object Damage (FOD) is eliminated from all parts prior to shipment. In addition to maintaining compliance with Honeywell site's cleanliness specifications, all suppliers must maintain a FOD free environment during machining, manufacturing, assembly, maintenance, inspection, storage, packaging and shipping.

- Potential FOD includes but is not limited to burrs, chips, dirt, corrosion, residual abrasive material from grind, hone, deburr, polish, and/or surface improvement, and/or contamination resulting from the manufacturing, assembly, maintenance, processing, cleaning, storage and subsequent packaging of parts.
- Suppliers must ensure all passageways- cast and/or machined are clear of chips, core material, dirt, breakout of cast walls, etc.
- Prior to closing inaccessible or obscured areas and compartments during assembly, supplier shall ensure the areas are free of FOD.
- Suppliers must ensure all parts are clean and FOD free prior to shipment.
- Suppliers are required to maintain a FOD prevention program, which includes prevention and elimination of FOD from the manufacturing processes and work area.

Specific attention should be given, where applicable, to items such as:

- Housekeeping and cleanliness
- Food and beverage control
- Tool and small part accountability
- Loose objects
- Material handling and parts protection
- External cleaning following evidence of external contamination

Supplier shall ensure that the responsibility for the FOD prevention program is clearly defined and appropriate personnel have received FOD awareness training.

Suppliers are responsible for flow down of these requirements to their sub-tier suppliers to ensure FOD free products.

Suppliers FOD prevention program and controls shall comply with SAE AS9146 and are subject to periodic audits by Honeywell as deemed necessary to ensure program effectiveness and compliance. This includes, but not limited to, Failure Analysis Reports, Containment and Preventive Corrective Action Plans taken to preclude recurrence. These reports shall be made available and submitted upon request.



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Q28 MERCURY FREE PRODUCTS

Mercury Free Products: Products delivered shall contain no metallic mercury and must be free from contamination by mercury. The Supplier shall not use mercury, mercury components or mercury bearing instruments or equipment that cause contamination during the manufacture, service, assembly, or test of materials. There shall be a mercury free statement on Certification of Conformance.

Q29 OZONE DEPLETING SUBSTANCES

Class I Ozone Depleting Substances (ODS) according to the Clean Air Act (CAA) shall not be used in the design, test, manufacture, integration and assembly, handling, transportation, operations, maintenance or disposal of the hardware/components delivered to this order.

Q30 COUNTERFEIT PREVENTION PROGRAM

The supplier shall have a program in place to prevent the delivery of counterfeit parts and materials to RNP. All parts, materials and assemblies (electrical, mechanical, raw material) included in the hardware delivered to RNP shall be procured directly from the Original Component Manufacturer (OCM) / Original Equipment Manufacturer (OEMs), or from the OCM/OEM authorized-distributor. If it is determined in a specific instance that this is not possible, a deviation request shall be submitted by the supplier to the RNP buyer within (5) working days of this determination. The supplier is responsible for the flow down of this requirement to its sub-tier contractors and their compliance to it. Further guidance on counterfeit parts avoidance can be found in SAE documents AS5553 & AS6171 (Electronics) and AS6174 (Material) (www.sae.org). Suppliers shall perform periodic audits to verify compliance to the requirements of their Counterfeit Parts Control Plan. Plans and records of their audits and results shall be maintained and provided upon request.