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1. PURPOSE

This document describes the general and special product assurance requirements (clauses) that will be used by Arnold Magnetic Technologies on the Purchase Order, Contract or other formal agreement (hereafter referred to as the Contract) between a Supplier and Arnold Magnetic Technologies. The purpose of this document is to clearly define for each purchase of products or services, all of the necessary and applicable technical and quality requirements with which the Supplier is required to comply to meet Arnold Magnetic Technologies (AMT), Arnold Magnetic Technologies' customer and/or regulatory requirements.

2. RESPONSIBILITY AND AUTHORITY

The Purchasing and Quality Managers are responsible that all the applicable requirements are communicated to the suppliers and that the suppliers are in conformance with these requirements. By delivering products or services on the Contract, the Supplier certifies that such products or services are in compliance with all applicable requirements of the Contract, and objective evidence of compliance is available and will be furnished to Arnold Magnetic Technologies for review upon request.

3. SCOPE

This document applies to all PO's where PQC's are identified. General requirement PQC's apply to all orders regardless of whether or not they are individually called out on the PO. Any customer specified flow downs/quality requirements noted in PQC 27 or on the PO supersede Arnold Magnetic Technologies PQC requirements.

4. GENERAL REQUIREMENTS

The following requirements apply to all products delivered to Arnold Magnetic Technologies where the requirements of meeting the standard PQCs are referenced on the PO.

a. Product Safety


By accepting the purchase order the supplier acknowledges that it is critical that any article ordered must be conforming to all requirements in order to ensure it is able to perform its designed or intended purpose without causing unacceptable risk of harm to persons or damage to property. This includes protection of the article's characteristics during manufacturing and shipment. Suppliers shall notify Arnold Magnetic Technologies of any deviations from purchase order requirements according to PQC-25 of this document and must receive approval from Arnold Magnetic Technologies before shipment of any affected articles.

b. Acceptance at Destination

Articles ordered on this PO are subject to final acceptance at destination. Materials received which do not conform to the provisions as indicated on the purchase order will be subject to rejection or such measures as may be deemed necessary by the Purchasing or Quality Managers or their designates. Should a DMR be issued corrective action shall be taken and evidence shall be provided to Arnold Magnetic Technologies within 30 days upon notice unless other actions are agreed upon between Arnold magnetics Technologies Purchasing or Quality manager and the supplier.

c. Quality System:

The suppliers on this order must be controlled under a Quality Control System that conforms to the requirements of the current acceptable revision of the ISO 9001 or AS 9100 Quality Management System Standards or equivalent with written approval of Arnold Magnetic Technologies.

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For suppliers with a third party ISO Certificate, any renewal, probation or revocation of ISO Certificate requires immediate notification to Arnold Magnetic Technologies Purchasing and Quality Departments.

Note: Additional quality system requirements may be applied because of customer flow downs by so noting on the purchase order.

d. Calibration System:

The supplier's measuring and testing equipment used in the performance of orders for Arnold Magnetic Technologies shall be calibrated in accordance with ISO 10012-1 or equivalent.

e. Dimensional Test Data:

The supplier shall perform dimensional inspection to verify all characteristics and notes on the drawing/specification. The supplier shall record the actual dimensional readings. The inspection results must be kept on file and shall be made available to AMT upon request at no additional cost. All recorded data must be legible.


The items delivered on this PO shall be controlled by the supplier/manufacture under a quality inspection system sufficiently adequate to verify that the material or service furnished meets all requirements of this purchase order. An AQL of 1.0 C=O sampling plan at minimum is required per the Table I below. At a minimum the report shall contain the balloon #, drawing note/characteristic, actual reading, inspection instrument used, job/lot#, drawing # and revision.

If key characteristic(s)(KC) are noted on the drawing or specified by Arnold Magnetic Technologies to be verified then these KC shall be inspected as specified and recorded on an inspection form and supplied to AMT with each shipment.

Note: Special inspection requirements may be required as identified in the supplemental PQC's later in this document and specified on the PO.

Table I: Accept on Zero (C=0) Sampling Plan

Lot Size	Acceptable Quality Level (AQL)			
	.65	1.0	2.5	4.0
2-8	ALL	ALL	6	3
9-15	ALL	13	6	3
16-25	20	13	6	3
26-50	20	13	7	7
51-90	20	13	11	8
91-150	20	13	11	9
151-280	29	29	13	10
281-500	47	29	16	11
501-1200	47	34	19	15
1201-3200	53	42	23	18

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f. Certificate of Conformance:

A certificate of conformance must accompany each shipment of material. The Certificate of Conformance shall be legible and at a minimum include the following information:

- Supplier name and address
- A statement that material shipped conforms in all respects to the applicable specifications and/or standards.
- The standard or process number called out on the PO/Product drawing must be present on the C of C provided as written on the PO/Product Drawing.
- The Arnold Magnetic Technologies Purchase Order Number and line number.
- Part Number and Latest Revision Letter. (unless specified otherwise on the PO)
- Manufacture lot number. (Traceability Information)
- Quantity shipped.
- Date Shipped.
- Identity of Quality Representative or company official.
- Signature of an authorized company representative.
- Serial Numbers. (if applicable)
- Mill Heat Number if material is provided by supplier.

When multiple lots of material are used in completing a shipment, the parts shall be packaged separately with a separate and complete certification package including a supplier Certificate of Conformance for each lot of material.

Where applicable, required physical and chemical test certificates are to be included in the shipment.

When material is provided by a distributor, the Certificate of Conformance from the original manufacture must be provided. The original manufacture C of C shall meet the requirements above.

g. Material Certification:

g.1) For raw material shipments or supplier provided material, in the form of bar, plate, sheet, tubing and castings the material certification shall contain the following at a minimum:

- Chemical Composition - in percentages(%)
- Mechanical/Metallurgical Test - Tensile strength, yield strength, percent elongation, hardness, etc.
- Material designation.
- Specification and revision letter(to the latest revision in effect at time of shipment) that the material was purchased to.
- Heat Number.
- Any other requirement specified on the PO or drawing.


g.2) For magnet material shipments, the material certification shall contain the following:

- BH Curve(Quadrant II).
- Magnetic properties – Br(Residual Induction), HcB(Coercivity), HcJ(Intrinsic Coercivity), BHmax(Maximum Energy Product).
- Material Lot/Heat Number.
- Any other requirement specified on the PO or drawing.

Material certification shall be supplied with each shipment and be legible. Certifications must be provided by the manufacture. Distributor certifications are NOT ACCEPTABLE. If material is provided through distribution, the distributor must provide a C of C confirming that there is un-broken traceability from all intermediaries back to the original manufacturer including heat treating.

h. Lot Traceability:

All items fabricated under this purchase order shall be traceable to raw materials used. All traceability and inspection records must be identifiable with raw materials, parts, or assemblies to which they are applicable and shall be available upon request or audit by Arnold Magnetic Technologies representatives. The lot or batch number may be by date or supplier shop order code, but must provide the capability for a lot or batch purge in

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the event of determination of a condition or discrepancy. Identification shall be per MIL-STD-130, or in the applicable specification

Raw materials used shall be identified by lot number as well as material type, specification, heat number, etc. and shall be identifiable with the lot of raw materials used when two (2) or more parts are joined in an assembly. The seller shall prepare an Assembly Parts List identifying each in the assembly and the lot of raw material from which it was fabricated.

All materials fabricated by the seller in one lot shall be identifiable to that lot when supplied to Arnold Magnetic Technologies. When the seller is combining material fabricated in two or more different lots to fulfill purchase order requirements, these materials shall be segregated and identifiable to the lot in which it was fabricated. The seller shall request, from the buyer whose signature appears on the purchase order, written authorization to submit materials fabricated in two or more lots to fulfill the total quantity of each item on this purchase order.

i. Material Review:

Arnold Magnetic Technologies Customer's Quality shall retain MRB authority on dispositions for any discrepancies affecting product performance and/or drawing requirements other than scrap or rework. Non-conforming material is to be identified, segregated, and controlled to prevent its unauthorized use for shipment. The cause of such non-conformances is to be identified and corrected.

j. Special Test Report Origin Requirements:

The test reports for chemical and mechanical properties required in this purchase order shall include those issued by the ORIGINAL Producer of the material which certify conformance to the specification(s) invoked herein. If this material has received subsequent processing (i.e. heat treat, testing, etc.) by the Supplier or his sub-tier supplier(s) to make it conform to the required specification, the test reports for the material in its final condition (as supplied to the Buyer), shall be accompanied by a copy(ies) of the ORIGINAL Producer's certification(s).

k. Configuration Control:

Supplier shall make no change in design, manufacturing or assembly process, source of supply or manufacturing location after approval of the first article or first production run without the written approval from Arnold Magnetic Technologies.

l. Unauthorized Facility Change:

The supplier shall give Arnold Magnetic Technologies written notice before relocating any production, inspection, or processing facilities.

Written notice is also required when making changes to source of any major component or making any other changes which may affect product quality or reliability. Change in ownership or management representative with respect to the supplier's quality system also require written notification.

m. Unauthorized Product Changes:


The supplier may not make any changes or substitutions to any products or services required by the contract, drawing, specification or any other applicable document without prior written approval from Arnold Magnetic Technologies.

n. Altering Data on Documents:

The use of any method that caused the original data to be unreadable (i.e.: correction tape and fluids) is strictly prohibited.

o. Record Retention:

The supplier shall retain all records that provide objective evidence of compliance to contract requirements pertaining to material, manufacturing processes, special processes, testing and inspection for a minimum of 10 years after final payment. There are special circumstances and customer requirements that may be longer.

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Special requirements will be defined in the purchase order. Supplier is required to notify and get Arnold Magnetic Technologies written approval prior to destruction.

p. Latest Revision:

All suppliers are responsible to supply materials to the latest specification(s) revision defined on the drawing, purchase order or listed/referenced processing specification unless otherwise agreed to in writing by Arnold Magnetic Technologies.

q. Deviation to Purchase Order Requirements:

A request for variance may be initiated by the Supplier prior to shipment for any deviation from drawings, specifications or other Purchase Order requirements and must adequately describe such deviations, including a complete description of the cause and corrective action to prevent recurrence. The request for variance via a Non-Conforming Material Record shall be submitted to the Arnold Magnetic Technologies' Buyer who will initiate an Arnold Magnetic Technologies Material Review Board. A copy of the Arnold Magnetic Technologies approved request for Specification variance will be returned to the Supplier, showing results of the Material Review Board. Request shall be submitted on Arnold Magnetic Technologies form 8.3.1.1.2a.

Supplier shall not ship a discrepant item reported and submitted on a request for variance until the Material Review Board has disposition the item. Items shipped on a request for variance must be segregated from other items to permit separate identification to be maintained.

Non-conforming conditions on items submitted and approved on request for variance's prior to shipment will not be charged to the Supplier's Quality Performance Record. Supplier is responsible for all costs incurred by Arnold Magnetic Technologies directly associated with any nonconformance determined to be the supplier's responsibility and not accepted on deviation by Arnold Magnetic Technologies

r. Flow Down Of Requirements:

Supplier is responsible to flow down all requirements of this purchase order and verifies that any sub-level supplier that is being used to manufacture/process this product meets all such requirements.

s. Marking of shipments:

Supplier shall individually mark the outside of each box shipped with the Arnold Magnetic Technologies P.O. Number, part number and the quantity of parts in the box. If the boxes are reused any previous markings must be completely removed or covered such that only the current contents of the box are visible. Lot numbers shall not be mixed within a box.

**See Appendix-A for suplamental Details*

t. Preservation and Packaging:


The organization shall incorporate good commercial standard practices and methods for the preservation, packaging, and shipment to preclude damage to products during shipment to Arnold or deterioration/corrosion while in storage. Newsprint shall not be used for wrapping of parts or as dunnage due to its acidic nature.

Divided containers or individual packaging, etc., shall be used for material susceptible to damage from part-to-part contact. Use of staples, paper clips, or other potential sources of Foreign Object Damage / Foreign Object Debris (FOD) is prohibited in packaging.

**See Appendix-A for suplamental Details*

u. Foreign Object Damage (FOD) Prevention

Supplier shall establish and maintain an effective Foreign Object Damage/Debris (FOD) Prevention Program to reduce FOD using NAS412 as a guideline. Supplier shall utilize effective FOD prevention practice to protect product at all times. Suppliers shall establish methods and facilities for identifying, handling, and storing articles to ensure against contamination, corrosion, damage, deterioration and invasion of foreign objects or substances.

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5. SUPPLEMENTAL PQC's

The following PQC's will apply to your order if identified on the PO:

PQC-06 First Article Inspection(FAI):

A full or Delta FAI shall be performed in accordance with latest revision of AS 9102 on a part representative of the production process to be used in the manufacture of these parts. When a previous FAI has been submitted the requirement for whether or not a new FAI is required will be in accordance with AS 9102. Customer FAI requirements supersede AS9102 when specified on the PO. The FAI is to be completed using Arnold Magnetics FAI form #8.2.4.7b and reviewed using AMT's FAI review checklist form #8.2.4.7.2 which can be obtained from the quality department. The review checklist shall become part of the FAI submittal to AMT. Alternate AS9102 compliant forms or FAI generation software may be used with the written approval of the Arnold Magnetics Quality department. The FAI report shall reflect actual readings and show compliance to drawing and related specifications (i.e. 100% of drawing characteristics & notes). All FAI forms shall be completed electronically. Hand written FAI's will not be acceptable. The supplier shall account for all drawing characteristics and notes by assigning a unique identifier to each characteristic on the drawing and including that same unique identifier on the FAI report. The marked drawing (with unique identifiers) shall become part of the FAI submittal to AMT. Use-as-is acceptance of FAI hardware nonconformance's does not constitute first article approval. The specific part used by the supplier for FAI must be clearly tagged / separated from the rest of the parts of the shipment. A copy of the FAI documentation is to accompany the first shipment of parts.

All FAI reports shall be written to comply with the following documents available through the Arnold Magnetics Quality Department.


- 1) Document 8.2.4.7b AS9102B FAIR Form
- 2) Document 8.2.4.7.2 Vendor FAIR Checklist

PQC-06a Customer Specific FAIR Documents:

Customer specific FAIR document use is required for this order. The use of any other FAIR forms will result in FAIR rejection. Contact Arnold Magnetic Technologies for the required customer specific FAIR template.

PQC-07 Production Part Approval Process:

1. The PPAP must include at a minimum a Control Plan, Process Flow Diagram, In-Process Characteristic controls, a Process FMEA, Gage Repeatability and Reproducibility (R&R) studies for all measuring equipment, material certifications, a Packaging proposal, details of improvement opportunities, and documentation listing issues and concerns. If Tooling or Gauging is influential in determining part characteristics, the Control Plan must also include a Tool/Gauge Plan outlining methods for tryout, qualification and monitoring to maintain control.
2. If the Supplier provides prototype or sample parts, details of the methods of manufacture and measurement data must be supplied with the parts. This data may also be sent ahead of the shipment electronically.
3. The Supplier must perform a Feasibility Study. When the process is stabilized, samples will be taken for Histogram and First Piece evaluation. First Piece evaluation consists of a 100% layout for one part. To be acceptable all characteristics must be within specification. Histogram evaluation will be conducted on all Critical Part Characteristics and shall be constructed from a thirty-piece sample selected from an agreed production run quantity. To be acceptable all Critical Part Characteristics must yield a Cpk of 1.33 or higher. The Supplier must submit the study data to Arnold Magnetic Technologies for approval. The Supplier must retain, at a minimum, one sample as a Master part for the life of the program. If parts are produced by multi-cavity tooling then the Feasibility Study must be performed separately for each of the cavities.

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4. The Supplier must perform a Process Capability Study on all critical characteristics. Study will be taken from a production run of a minimum of 300 pieces and should consist of 25 sub-groups of 5 consecutive pieces. The sub-group samples are to be equally spaced through the run. To be acceptable the Cpk of 1.33 or higher is required. The Supplier must submit the study data to Arnold Magnetic Technologies for approval. If parts are produced by multi-cavity tooling then the Capability Study must be performed separately for each of the cavities. If this is a short run process that will not yield 300 pieces, Arnold Magnetic Technologies advise the number of samples to be taken.

5. Unless waived by Arnold Magnetic Technologies, the Supplier must repeat steps 3 and 4 above, and update the Control Plan if changes are made to the part design, tooling or production process. The Supplier must notify Arnold Magnetic Technologies of such changes prior to the changes being made. Steps 3 and 4 must also be repeated, unless waived by Arnold Magnetic Technologies, if the part material is changed. Arnold Magnetic Technologies may also request the supplier to repeat steps 3 and 4 after correction of a discrepancy from a previously submitted study, or following correction of a discrepancy found during production.

PQC-08 Source Inspection:

Arnold Magnetic Technologies or their customers are required to perform source inspection prior to shipping from the supplier's facility. When material is ready for inspection, notify Arnold Magnetic Technologies at least forty-eight (48) hours in advance. Source Inspection does not relieve the supplier of any of the requirements of this purchase order nor the responsibility of rework or replacement of material found to be defective during normal acceptance procedures. The supplier's gages, measuring and testing devices shall be made available for the Source Inspector.

PQC-09 Government Source Inspection (GSI):

GSI is required prior to the shipment of any items against this purchase order. Government inspection does not relieve the supplier or Arnold Magnetic Technologies of their obligation to provide conforming parts/services. Government inspection does not constitute acceptance. When Government Inspection is required, Arnold Magnetic Technologies will add to his purchasing document the following statement:

"Government inspection is required prior to shipment from your plant. Upon receipt of this order, promptly notify the government representative who normally services your plant so that appropriate planning for government inspection can be accomplished."

When, under authorization of the Government representative, copies of the purchasing document are to be furnished directly by the subcontractor or supplier to the Government representative at his facility rather than through Government channels. Arnold Magnetic Technologies will add to its purchasing document a statement substantially as follows:

"On receipt of this order, promptly furnish a copy to the government representative who normally services your plant, or, if none, to the nearest Army, Navy, Air Force, or Defense supply agency inspection office. In the event the representative or office cannot be located, our purchasing agent shall be notified immediately."


PQC-14 Special Process Approval Required:

All special processes (welding, plating, heat treating, etc.) must be performed by an Arnold Magnetic Technologies or Arnold Magnetic Technologies' customer approved source, unless other sources are defined on the purchase order. Special processes, once approved may not be changed without written Arnold Magnetic Technologies approval of the changes.

PQC-15 Special Process Certification:

The supplier is required to submit with each shipment a certification of all the special processes performed on the delivered part (E.G., NADCAP). The certificate must relate specifically to the part number being purchased and contain the signature of an authorized company representative.

The Certificate of Conformance shall include the quantity processed, the specification number and revision of all special processing performed. Suppliers are not permitted to out-source machining or special process operations without prior written authorization from Arnold Magnetic Technologies.

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PQC-16 Dimensional Test Data Supplied With Each Shipment

- A. In process dimensional inspection data per PQC 4e) or other specified AQL requirement shall be supplied with each shipment against this order. The data shall be representative of the parts and manufactured lot being shipped.
- B. 100% inspection report required for each part shipped. Each design characteristic shall have a unique identifier. The ballooned drawing shall have 100% accountability for all design features and notes. At a minimum the report shall contain the balloon #, drawing note/characteristic, actual reading, inspection instrument used, job/lot#, drawing # and revision.

PQC-17 Restriction of Hazardous Substances (RoHS):

The supplier shall provide with each delivery a certificate of compliance stating that all materials supplied are within the limits for hazardous substances as established by EU Directive 2002/95/EC. Should any material not comply, the concentration of the hazardous substance shall be reported on a chemical test report. At the discretion of Arnold Magnetic Technologies the material may be rejected and returned to the supplier if the concentration of the hazardous substance is over the established limits. Arnold Magnetic Technologies also reserves the right to request a written plan from the supplier detailing the necessary steps required to bring the material into compliance and the date when compliance will be established. Certification to meeting RoHS requirements must be included on the C of C.

PQC-18 Restriction of Hazardous Substances (RoHS) Mercury specific:

The supplier shall certify that all materials supplied are within the limits for hazardous substances as established by EU directive 2002/95/EC. Material supplied shall contain no metallic mercury and shall be free from mercury contamination. Upon request, the supplier will be required to certify that the product is mercury free. Certification to meeting RoHS requirements must be included on the C of C.

PQC-21 Non-Conventional manufacturing methods:


Unless required by the drawing, specification, or contract, the supplier may not use EDM, ECM, laser or abrasive water jet cutting or drilling, flame spray coatings, or any other non-conventional manufacturing method without the written approval from Arnold Magnetic Technologies.

PQC-27 Customer Specific Flow Downs:

- A. Customer Specific Requirement - All requirements of current revision of the Customer – SPOC manual, Section SPOC 002 (Suppliers without design authority) are imposed, as applicable per Customer Site, on all items which are indicated as Customer parts either on the drawing or P.O. line item. All special processes utilized in making a Customer item must be completed by an Approved Special Processor for the specific Customer Site per QP-457 document. See the Site specific “ASP” list for that process. A First Article inspection report per SPOC 124 is required with every initial shipment; thereafter per SPOC 124 requirements. For Items requiring Heat Treat with actual hardness values specified: secondary hardness verification is required to be performed and documented by an agent (any qualified personnel) independent of the original source (person/facility). This could be done upon receipt of raw material heat treated subsequent to mill testing and certification or after a subsequent heat treat operation, if one is to be performed. Independent hardness values are to be reported on a supplier’s Certificate of Conformance. Please refer to specification index 41-8612 Section entitled “General Requirements” within the Customer website to ensure all products are manufactured and certified to the latest document revisions.

STATEMENT TO PREVENT TRANSACTIONS WITH DENIED PERSONS/DEBARRED PARTIES/SDN:

To ensure compliance of U.S. export laws, Customer does not conduct any business transaction with the “Denied Persons List” published by the U.S. Department of Commerce, the “Denied Parties List” published by the Department of State and the “Specially Designated Nationals” list published by the Department of Treasury, Foreign Assets Control. Customer expects all suppliers and its sub-contractors to comply with these laws as well. Supplier agrees to include this requirement in lower-tier Purchase Orders and/or subcontracts. (You may view the U.S. Government web sites of the Agencies noted above to access their lists).

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- B. Customer Specific Requirement – All requirements of current revision of ASQR-01, **HSM17**, HSM19 & HSM 236 are imposed as applicable per Customer guidelines as indicated on the drawing or PO. All special processes must be completed by an Approved Special Process supplier specified on the Customer’s Approved Supplier List.
- C. Customer Specific Requirement – All requirements of current revisions of QC397 are imposed as applicable per Customer guidelines as indicated on the PO. KCs are identified on the drawing as "KC" enclosed in a diamond. Dimensions with associated geometric tolerances are both considered KC unless there is a leader line to a specific characteristic. Features marked "KC" shall require 100% recording of the actual measurements for all parts by either the Primary or Secondary supplier. The supplier will submit the actual measurement values with the parts. FAI applies to the first delivery for this part number/revision level unless otherwise defined in the PO per QPR 360. Certifications shall be supplied to support all special processes on the drawing. Fixed processes must conform to QPR 370 and submitted to the Buyer no later than at the time of shipment.
- D. Customer Specific Requirement – Any product supplied which contains cadmium must be identified by sending notification in writing to the procurement representative issuing this purchase order.
- E. Supplier shall permit Customer and its agents, during reasonable business hours at a mutually agreed upon time to inspect the Facilities where the Products are manufactured, handled, stored, as well as all processes relating to the manufacture, storage, handling, or testing of the Products. Where appropriate and upon Customer request, Supplier shall ensure that access for an inspection or audit of its sub-contractors involved in the production of Customer Product is also granted. Customer may review Supplier’s employee training records during an inspection as necessary.
- F. Supplemental Terms and Conditions Apply as per Form 116-32.
- G. Quality requirements apply as per standard S-200
- H. Quality requirements apply as per document P3100-05.
- I. Customer Specific Requirement – This order is subject to the company standard PS-06-10 (Current Issue) which requires release documentation to be provided i.e. a Certificate of Conformity which shall be signed by the suppliers authorized signatory declaring that the product conforms to the purchase order requirements. The suppliers system must provide a process for the inspection, verification and documentation of the first production article, and updates it, in accordance with First Article Inspection Document 11-10-04.

PQC-28 FOD Prevention (PQC-28 has been moved to General Requirements section u.)


PQC-29 Packaging (PQC-29 has been moved to General Requirements section t.)

PQC-30 DFARS 252.225-7008-7009 Applies:

Per DFARS 252.225-7008-7009: If the metal or component(s) for this order contain “Specialty Metals” then these “Specialty Metals” must be MELTED in the United States or in a Qualified Country as defined in the Defense Federal Acquisition Regulation Supplement 225.003(9). This requirement applies to every sub-tier under contract with your company. The vendor supplier C of C must show compliance to DFARs.

PQC-31 ITAR:

This document, which includes any attachments and exhibits hereto, may contain information subject to International Traffic in Arms Regulation (ITAR) or Export Administration (EAR) of 1979, which may not be exported, released, or disclosed to foreign nationals, inside or outside the United States, without first obtaining an export license.

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PQC-32 Shelf Life (of age sensitive components)

The supplier shall assure that all limited life components used or contained within provided assemblies are within their respective shelf life at the time of installation or use. The supplier shall record and maintain documented evidence of compliance with this requirement for each of the limited life components and consumables used for each assembly. This documented evidence is not required to accompany shipment of assemblies; however, it shall be retained and shall be made available upon request.

PQC-33 REACH Compliance:

All goods provided shall be compliant to the REACH regulations. The supplier shall bear full responsibility for continuous monitoring of the publication and updates of the European Chemicals Agency list of Substances of Very High Concern (SVHC) and immediately notify Arnold Magnetics if provided goods will contain greater than 0.1% by weight or substances restricted under Annex XVII of REACH. (SVHC list is viewable at <http://echa.europa.eu/web/guest/candidate-list-table>). Notification that goods will contain SVHCs shall include the name and weight of the substance(s) and the weight percentage present, if greater than 0.1% by weight of the delivered good. Presence of SVHCs less than 0.1% by weight of the delivered goods does not need to be reported. Unreported SVHCs present above the threshold or substances restricted under Annex XVII of REACH, may result in purchase order cancellation and/or return of goods. Compliance to REACH shall be included on the C of C.

PQC 34 Serialization:

Each part, component, or assembly furnished on this purchase order shall be identified with a distinct serial number. Serial number shall not be duplicated on one part, component, or assembly number when manufactured in sequential lots. Marking of serial number shall be MIL-STD-130, or in the applicable specification.

PQC 35 Elevated AQL Inspection levels

When PQC 35 is specified the minimum AQL's listed below shall be followed:

Specification	AQL Level
Tolerance range greater than .004	2.5
Tolerance range less than or equal to .004	.65
Any angle tolerance range less than 1 degree	.65
Any critical characteristics	100%
Visual Inspections	100%

Per C=0 Sampling Plan


PQC 36 Material Validation

The supplier shall ensure and provide documented evidence that critical parameters and key characteristics of metallic raw materials are validated by a NADCAP accredited or A2LA approved, independent laboratory (other than original Mill source) on first receipt from each supplier or distributor of raw materials and on an annual basis thereafter.

The validation documents must certify that the chemical composition, element analysis, maximum impurity levels, microstructure, and physical properties of the material conform to the design specification. (Example; material and or test specifications indicated on order)

PQC 37 Hardness Validation

When a hardness value is specified on the engineering drawing, industry material specification (AMS,ASTM, etc.) or any purchase order flow down, a re-validation (second hardness verification) shall be performed and documented prior to shipment to AMT. The re-validation performed shall be performed by qualified parties impartial and independent of the original verification.

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PQC 38 Age Sensitive Material

The supplier is required, when age sensitive material is specified on purchase order, to submit with each shipment a certificate attesting to the conformance of the material(s). Age sensitive materials shall be identified and packaged in accordance with the applicable procurement specification. Product shall, as a minimum, be identified on each container or certification with the following:


- a) manufacturer's name
- b) batch number
- c) storage temperature
- d) compound/spec number
- e) date of manufacture
- f) manufacturer's recommended expiration date (if applicable)
- g) shelf life, cure date, retest date (if applicable)
- h) compound number, etc. so as to indicate useful life of the material (if applicable)

Any applicable special storage requirements shall be defined.


Material that has an expiration date shall have a minimum one year, or 80% of life when specified Shelf life is less than one year at the time of delivery to AMT unless otherwise stated on the Purchase Order.

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Appendix A
(Packaging Details)




Symbols Used test



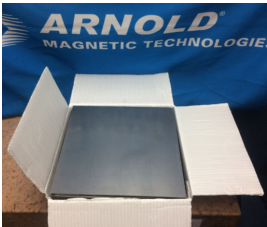
BOX




Boxes can be any size or shape



SHIELDED BOX



Shielded boxes are metal lined




MAGNETS


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! Only one part number per box permissible



PN 3

PN 1


PN 2




PN 1

PN 2

PN 3






PN 3

PN 1

PN 2



PN 3

PN 1

PN 2

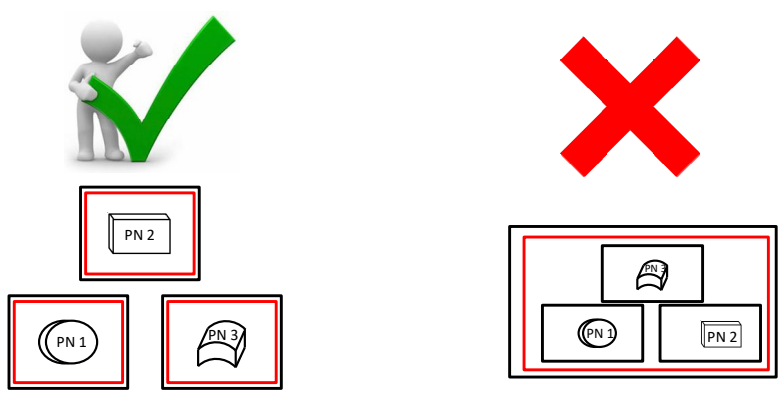
**Shielded boxes shall contain only one part number.
Shielded boxes cannot be used for overpack.**

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7.4.1.3.1

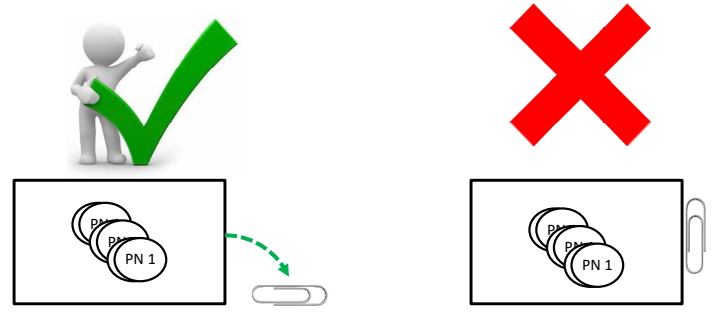
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Shielded boxes shall contain only one part number

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Paperclip Test



A paperclip must not stick to the outside of the box

PO #:12345
PO Line: 10
Part #: 1 /REV 1

PO Line: 20
Part #: 2 /Rev 1

PO #:12345
PO Line: 10
Part #: 1 /REV 1

PO #:12345
PO Line: 20
Part #: 2 /REV 1

PO #:12345
PO Line: 10
Part #: 1 /REV 1

PO #:12345
PO Line: 20
Part #: 2 /REV 1

If overpack is used each box inside must have a label and the overpack must show all part numbers inside.

No magnet-to-magnet contact. Magnets must be separated with soft material

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Packing Materials



Use of newsprint is forbidden

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Revision Log					
REV	DATE	SUBMITTED	APPROVAL (Proc. Owner)	APPROVAL (Quality)	DESCRIPTION
13	13FEB2015	F. LaFranco	M. Carney	N/A	Added PQC-16
14	10JUL2015	F. LaFranco	M. Carney	N/A	Updated SPOC 124 req, Added HMS 236
15	17AUG2016	C. Smith	D. Gulick	E. Bourne	Added PQC 36 & 37
16	23NOV2016	F. LaFranco	M. Carney	E. Bourne	PQC-4 d) added sampling specs. PQC 4 f) updated material cert requirements. Added f.1) & f.2) PQC-6) Updated 1 st article requirements PQC-35) updated
17	30NOV2016	F. LaFranco	M. Carney	E. Bourne	PQC 16 A) Updated text
18	07MAR2017	C. Smith	M. Carney	E. Bourne	Added r in section 4 Added AQL Table I to 4. d)
19	01JUN2018	C. Smith	M Carney	E. Bourne	Added new section 4a defining product safety requirements IAW AS900D. Added clarification for FAI requirements.
20	14FEB2019	F. LaFranco	M. Carney	E. Bourne	- Added PQC 38 - 4,e) Added requirements of the Inspection report - Removed Document 8.2.4.7.3(PQC-6) - Removed The PQC's in parenthesis in section 4
21	29OCT2019	M Carney	M. Carney	E. Bourne	Updated section s. Added Section t and u. PQC-28 now included in section S PQC-29 moved to General Requirements section u. Added appendix A.