



GENERAL REQUIREMENTS

The general requirements as listed in Section 1 are applicable to all Seal Science purchase orders *as they pertain to the product being purchased. (example: A First Article Report (D) would not be required for a chemical component)*

Purchase Order Specific or unique Quality Requirements imposed will be specifically coded and will be located on the face of the purchase order. These are described in detail in Section 2.

In any case where P.O. specific clauses (POQC's in Section 2) are in conflict with the General Requirements in Section 1, The Section 2 requirements shall take precedence.

SECTION 1

A. SUB-TIER CONTROL

The supplier shall be responsible for flow down of all the requirements and provisions of the Seal Science purchase order applicable to the supplier's sub-contractors. Additionally, the supplier shall comply with special processor requirements when imposed (e.g. – NADCAP, AMS, Customer approvals, etc.).

B. NOTIFICATION OF CHANGES

Suppliers chosen to be awarded purchase contracts by Seal Science have been approved to receive such contracts based upon meeting Seal Science Quality System requirements and also based upon their capability to provide the product being purchased. Approved Suppliers are required to notify Seal Science of any changes to the product (including material changes), the process(es) utilized to manufacture the product, and/or to their organization's Quality Management System that may differ from the original conditions of approval.

C. RIGHT OF ACCESS

During the performance of this purchase order, your Quality Assurance or Inspection and Manufacturing process are subject to review, verification and analysis by Seal Science, Seal Science customers, and/or Government/Regulatory Agency representative(s). This requirement is applicable to your facilities where Seal Science products and services are processed as well as your sub-tier's facilities. This 'Right of Access' must be flowed down to all of the sub-tiers that you utilize in performance of the contract.

D. REWORKED/REPLACED MATERIAL

When returning previously rejected material to Seal Science, the supplier shall reference the rejection notice number on the shipping document, and shall state if the items have been replaced or reworked **to conform to requirements.**

E. PRODUCTION FIRST ARTICLE REPORT

Compliance to requirements must be demonstrated by submitting a First Article Inspection Report in accordance with AS9102 included with the first lot shipment of product and with the first lot shipment of each subsequent revision. Assistance with the AS9102 reporting format can be obtained by contacting Seal Science's buyer.

A new First Article Inspection shall be performed when:

- a. A dimensional change incorporated by a new drawing revision occurs,
 - o When a drawing revision has occurred that involves partial dimensional changes in the product, and no change as described in 'b' thru 'f' below is involved, a 'Delta' First Article Inspection Report will fulfill this requirement.
- b. Either new manufacturing processes or new methods are used that could effect compliance to drawing requirements; or,



- c. New or reworked tooling is used; or,
- d. A drawing revision has occurred that affects the operations or processes performed by the supplier.
- e. The name or location of the supplier has changed.
- f. The previous first article date exceeds three years.

It is the supplier's responsibility to maintain the necessary records to assure that First Article Inspection requirements remain current.

F. SUPPLIER NON-CONFORMANCE APPROVAL REQUESTS

The supplier shall notify Seal Science of non-conforming material. Requests for any departures from drawings, specifications, or other purchase order requirements must be submitted for consideration by Seal Science in writing. Seal Science will in turn either approve or deny approval of the request in writing. ***Non-conforming material may NOT be shipped to Seal Science without such written approval.*** Non-conforming material shipped on an approved non-conformance must be accompanied by a copy of the signed Seal Science approval document.

G. NON-CONFORMING MATERIALS CORRECTIVE ACTION REQUESTS

Upon notification from the buyer that material furnished by the supplier is found to be discrepant and Seal Science requests Corrective Action, the supplier shall notify the buyer within the allotted time frame, in writing, of adequate and acceptable corrective action taken to eliminate the cause of the discrepancy. The Suppliers response shall include;

- (a) Containment Actions taken,
- (b) Root Cause of Defect,
- (c) Corrective Action Taken,
- (d) Action to Prevent Recurrence, and
- (e) Effectivity Point of such Corrective Action.

Objective evidence of all stated corrective actions should be included in the response and may be requested if not provided. (example: If Corrective Action included a change in a work instruction, a copy of the revised document should accompany the response)

H. REPAIR

Under no circumstances shall a Supplier or a Supplier's Sub-tier perform any repair procedures/operations without specific written authorization and an approved repair procedure from Seal Science. Repair procedures shall be submitted to the Seal Science buyer for approval.

I. DISPOSITION DELEGATION AND MATERIAL REVIEW

Seal Science does NOT grant nor delegate any disposition or material review authority to any of its suppliers.

J. CERTIFICATION TRACEABILITY, GENERAL

All certifications shall be traceable to the material submitted and shall contain the signature of the authorized representative of the seller. Serial numbers shall be listed if the components are serialized. Computer generated facsimile signatures will be accepted.

K. RECORDS RETENTION

The Supplier shall maintain adequate records of all aspects of the fulfillment of the purchase order for a period of not less than ten (10) years from the closing of the purchase order unless stated otherwise on the purchase order.



L. DRAWINGS SPECIFICATIONS AND QUALITY REQUIREMENTS

The Suppliers Quality System shall assure that the latest applicable drawings, specifications, and quality requirements are compatible with current purchase order agreements and are available and in use by the Supplier's manufacturing and inspection areas. Military Standards and Specifications utilized shall be to the latest revision in effect on the date of the purchase order, unless otherwise specified.

M. PACKAGING, HANDLING AND MARKING

1. In performance of the contract, the Supplier shall assure that all articles are packaged in a manner and with materials necessary to prevent deterioration, corrosion, or damage.
2. When packaging small parts the use of staples is prohibited.
3. The use of Foam 'peanuts' in packaging is prohibited.

N. SHELF-LIFE MATERIAL

Unless otherwise specified on Purchase Order, all shelf-life materials shall be delivered to Seal Science with a minimum of 80% shelf life remaining. The date of manufacture and expiration dates are required to be on the certification and the packaging.

O. MERCURY FREE

The use of mercury bearing instruments or equipment is prohibited during the fabrication assembly, testing or any phase of manufacture of any material furnished to Seal Science.

P. OZONE DEPLETING SUBSTANCES

The use of ozone depleting substances must not be allowed in any phase of manufacture of any material furnished to Seal Science.

Q. RoHS/REACH COMPLIANCE

All materials and products delivered to Seal Science must be in compliance to RoHS and REACH requirements unless authorized in writing otherwise. Information on REACH and RoHS compliance is available on the internet.

R. HAZARDOUS MATERIAL COMMUNICATION REQUIREMENTS

All materials and products delivered to Seal Science must be accompanied by the appropriate MSDS sheet as applicable in accordance with all current State and Federal codes.

S. INSPECTION SAMPLING

1. Unless otherwise specified in the Purchase Order and Quality Codes, the Supplier may use sampling procedures.
2. Sampling plans shall be in accordance ANSI Z1.4, with the exception that lot acceptance will always be: "accept on zero, reject on one". Sampling plans other than ANSI Z1.4 must be approved in writing by Seal Science for usage on Seal Science products. Seal Science will not approve any sampling plan which permits lot acceptance with known defectives in the population sample.

T. CALIBRATION SYSTEM

Supplier shall maintain a calibration system in compliance with either; Mil-STD-45662, ANSI/NCSL Z540-1, or ISO10012-1 latest revision.

U. FOREIGN OBJECT PREVENTION, DETECTION AND REMOVAL

The supplier shall assure that work is accomplished in a manner preventing foreign objects or material from entering and remaining in deliverable items.



SECTION 2

SPECIFIC REQUIREMENTS PURCHASE ORDER QUALITY CODES (POQC's)

Q01. SPECIAL PROCESS APPROVALS

Special Process sub-tiers such as welding, heat treating, plating, coating, nondestructive testing, etc. must be performed by sub-tiers that have been approved by Seal Science's Customers, and/or hold NADCAP approval. If this POQC is imposed, the purchase document should define which actual approval(s) are required. If this definition is not included on the purchase order – the Supplier must contact the Seal Science buyer for guidance prior to any special processes being performed.

Q02. QUALITY ASSURANCE SYSTEM REQUIREMENTS

[Should suffix b), c), or d) not be specified, a) is the default requirement]

- a) Suppliers shall maintain a Quality System program as approved by Seal Science.
- b) Supplier shall maintain a Quality System program in compliance with the requirements of MIL-I-45208.
- c) Supplier shall maintain a Quality Program in compliance with ISO9001 or AS9100 requirements.
- d) Suppliers shall be Third Party Registered to ISO9001 or AS9100.

Q03. SOURCE INSPECTION BY SEAL SCIENCE

When this POQC is imposed, the Seal Science Quality Representative shall perform evaluation/acceptance of product at the supplier's facility. Notify the Seal Science buyer prior to shipment of this order to coordinate this inspection.

Q04. SOURCE INSPECTION BY GOVERNMENT AGENCY OR SEAL SCIENCE CUSTOMER

- a. Mandatory GSI - Government inspection is required prior to shipment from your plant. Promptly notify the Government Representative who normally services your plant so that appropriate planning for Government Inspection can be accomplished. On receipt of this order, promptly furnish a copy to the Government Representative who normally services your plant. In the event the representative or office cannot be located contact the cognizant Seal Science buyer immediately. If this POQC is imposed, Seal Science shall reference the Government Contract number on the face of the purchase document as well as furnish a copy of the contract.
- b. Seal Science's Customer Source Inspection is required at your facility – At least 48 hours prior to completion of the order, notify the Seal Science buyer so that arrangements can be made for a Customer Quality Source Inspector to visit your facility and perform a source inspection.



Q05. CERTIFICATE OF CONFORMANCE

The supplier shall furnish a Certificate of Conformance (C of C) with each shipment of each item listed on this purchase order. As a minimum, the C of C shall include the following information:

A) For suppliers of metallic raw materials and/or suppliers of components produced from metallic raw materials:

1. The Seal Science purchase order number.
2. Part number and revision level.
3. A reference to all applicable specifications as listed on P.O. or drawings.
4. Quantity and U/M of items shipped.
5. Name and address of manufacturer/processor.
6. Date of Certification.
7. The statement: "WE HEREBY CERTIFY THAT ALL MATERIALS FURNISHED CONFORM TO ALL DRAWINGS, SPECIFICATIONS, PROCESSES, AND/OR OTHER REQUIREMENTS AS STATED ON THE ABOVE REFERENCED PURCHASE ORDER." (Reasonable variations of this statement are acceptable as long as the content concurs.)
8. The ORIGINAL signature (Electronic signatures are acceptable) of an authorized company representative.

B) For suppliers of components produced from synthetic, resin, or polymer based raw materials:

1. The Seal Science purchase order number.
2. Part number and revision level.
3. A reference to all applicable specification and/or processes as listed on P.O. or drawings.
4. Quantity and U/M of items ship
5. Name and address of manufacturer.
6. Compound number, Batch and/or Lot number and Cure date.
7. Date of Certification.
8. The statement: "WE HEREBY CERTIFY THAT ALL MATERIALS FURNISHED CONFORM TO ALL DRAWINGS, SPECIFICATIONS, PROCESSES, AND/OR OTHER REQUIREMENTS AS STATED ON THE ABOVE REFERENCED PURCHASE ORDER." (Reasonable variations of this statement are acceptable as long as the content concurs.)
9. The ORIGINAL signature (Electronic signatures are acceptable) of an authorized company representative.



C) For suppliers of chemicals used as ingredients for compounding, adhesives, primers, fabrics, cleaners, etc., for the processing of Seal Science manufactured products:

1. The Seal Science purchase order number.
2. Material designation, Batch and/or Lot No.
3. A reference to all applicable specifications and/or processes as listed on P.O. or drawings **OR** if none apply, to the manufacturers published technical data sheets/specifications.
4. Quantity and U/M of items shipped.
5. Name and address of manufacturer.
6. Date of manufacture.
7. Shelf life. (Age controlled materials only.)
8. Material expiration date. (Age controlled materials only.)
9. Storage temperature requirements. (If applicable.)
10. Date of Certification.
11. The statement; "WE HEREBY CERTIFY THAT ALL MATERIALS FURNISHED CONFORM TO ALL DRAWINGS, SPECIFICATIONS, PROCESSES, AND/OR OTHER REQUIREMENTS AS STATED ON THE ABOVE REFERENCE PURCHASE ORDER." (Reasonable variations of this statement are acceptable as long as the content concurs.)
12. The ORIGINAL signature (Electronic signatures are acceptable) of an authorized company representative.

D) For suppliers of mixed finished compounds and/or master batches.

1. The Seal Science purchase order number.
2. Material designation, Batch and/or Lot No.
3. Any referenced Material Specification(s) indicated on the purchase order.
4. Quantity and U/M of items shipped.
5. Name and address of manufacturer.
6. Date of manufacture.
7. Shelf Life & Expiration Date
8. Date of Certification.
9. The statement: "WE HEREBY CERTIFY THAT ALL MATERIALS FURNISHED CONFORM TO ALL SPECIFICATIONS OR OTHER REQUIREMENTS AS STATED ON THE ABOVE REFERENCED PURCHASE ORDER." (Reasonable variations of this statement are acceptable as long as the content concurs.)
10. The ORIGINAL signature (Electronic signatures are acceptable) of an authorized company representative.



E) For suppliers performing or subcontracting manufacturing/inspection processes such as; plating, anodize, chemfilm, x-ray, penetrant, heat treat, welding, etc.:

1. The Seal Science purchase order number.
2. Part number and revision level.
3. Quantity and U/M of parts shipped.
4. Each process/test performed.
5. Each process specification and revision level.
6. For N.D.T.- each test specification and revision level.
7. For N.D.T.- each test acceptance standard, revision level, and acceptance level.
8. Process approval number if issued by a certifying agency.
9. Name and address of process/test source (if subcontracted).
10. Date of certification.
11. The statement: "WE HEREBY CERTIFY THAT ALL MATERIALS FURNISHED CONFORM TO ALL SPECIFICATIONS, DRAWINGS, OR OTHER REQUIREMENTS AS STATED ON THE ABOVE REFERENCED PURCHASE ORDER." (Reasonable variations of this statement are acceptable as long as the content concurs.)
12. The ORIGINAL signature (Electronic signatures are acceptable) of an authorized company representative.

F) For suppliers that have processed or manufactured product from Seal Science supplied materials:

1. The Seal Science purchase order number.
2. Part number and revision level.
3. Quantity and U/M of parts shipped.
4. Name and address of manufacturer.
5. Date of Certification.
6. The statement: "WE HEREBY CERTIFY THAT ALL PRODUCTS FURNISHED UNDER THIS PURCHASE ORDER WERE MANUFACTURED FROM SEAL SCIENCE SUPPLIED MATERIAL." (Reasonable variations of this statement are acceptable as long as the material no. and batch/lot no. appear.)
7. MATERIAL NO: _____.
8. BATCH/LOT NO: _____.
9. The ORIGINAL signature (Electronic signatures are acceptable) of an authorized company representative.

Q06. CHEMICAL AND PHYSICAL TEST REPORTS REQUIRED

The supplier shall furnish a copy of a certified test report with each shipment for each item listed on this purchase order. As a minimum, the test report shall include the following information:

A) For suppliers of metallic raw materials and/or suppliers of components produced from metallic raw materials, one of the following test reports shall accompany the shipment:

1. A certified copy of the actual producing mill's test report, or
2. A certified copy of an accredited laboratory's test report, or
3. A certified copy of the distributor's test report.

These test reports must contain the following:

1. The name of the producing mill.
2. The material specification and revision level.
3. The raw material heat/lot number.
4. The actual quantitative results of all lot acceptance testing as required by the raw material specification (i.e. – chemical, physical, and metallurgical).

NOTE: Unless specified otherwise on the P.O., typical test values are acceptable for all copper alloys.



5. The ORIGINAL signature (Electronic signatures are acceptable) of an authorized mill, laboratory, or distributor representative.

NOTE: In addition to the above, some type of **traceability** is required to be maintained *In order to tie-together* our purchase order, the supplier C of C, and the material test report.

(example: the Mill Heat/Lot number must be referenced on the supplier C of C furnished against the Seal Science purchase order number)

B) For suppliers of components produced from synthetic, resin, or polymer based raw material:

1. The Seal Science purchase order number.
2. Part number and revision level.
3. A reference to all applicable specifications as listed on P.O. or drawings.
4. Quantity and U/M of items shipped.
5. Name and address of manufacturer.
6. Compound No., Batch and/or Lot No., and Cure date.
7. Date of Certification.
8. The actual quantitative results of all lot acceptance testing as required by the raw material specification.
9. The statement: "WE HEREBY CERTIFY THAT ALL MATERIALS FURNISHED CONFORM TO ALL DRAWINGS, SPECIFICATIONS, PROCESSES, AND/OR OTHER REQUIREMENTS AS STATED ON THE ABOVE REFERENCED PURCHASE ORDER." (Reasonable variations of this statement are acceptable as long as the content concurs.)
10. The ORIGINAL signature (Electronic signatures are acceptable) of an authorized company representative.

C) For suppliers of mixed finished compounds and/or master batches and/or base gums.

1. The Seal Science purchase order number.
2. Material designation, Batch and/or Lot No., and Mix date.
3. A reference to all applicable specifications as listed on P.O. or drawings.
4. Quantity and U/M of items shipped.
5. Name and address of manufacturer.
6. Date of Certification.
7. The actual quantitative results of all Lot/Batch Acceptance or Quality Control testing as required by the material specification** or as indicated on the purchase order.
8. The statement: "WE HEREBY CERTIFY THAT ALL MATERIALS FURNISHED CONFORM TO ALL SPECIFICATIONS AS STATED ON THE ABOVE REFERENCED PURCHASE ORDER." (Reasonable variations of this statement are acceptable as long as the content concurs.)
9. The ORIGINAL signature (Electronic signatures are acceptable) of an authorized company representative.

** - Should Seal Science require Full Qualification/First Article Testing be performed, this will be indicated in the purchase order verbiage.



Q07. SEAL SCIENCE FURNISHED MATERIALS

Items manufactured under this purchase order agreement shall be fabricated from Seal Science furnished material. The supplier shall not substitute, rework, or dispose of Seal Science furnished material in any way, except as allowed for or instructed to do so in writing. Unused material must remain properly identified and returned with the last shipment of fabricated parts, unless instructed otherwise.

Any non-conforming product resulting from this outside processing must be clearly identified as non-conforming and separately packaged for return and disposition at Seal Science. (Also see C of C requirement in Q05F).

Q08 DOMESTIC SPECIALTY METALS REQUIREMENT

Any specialty metals as defined in DFARS 252.225-7014 *Preference for Domestic Specialty Metals* – must originate from a domestic melt source.

Q09 DOMESTIC MATERIAL REQUIREMENT

All material used for fulfilling this purchase order must be from domestic stock and wholly manufactured and processed within the borders of the UNITED STATES OF AMERICA. The BUY AMERICAN ACT, FAR 252.225-3, dated January 1989 (In accordance with FAR 25.109[d], applies.

Revision History

Revision	Revision Notes	Initials	Rev. Date
A	Added NCM paragraph in Q07	MKM	10-12-09
B	Revisions indicated in italics w/yellow hi-lite	MKM	10/4/2010