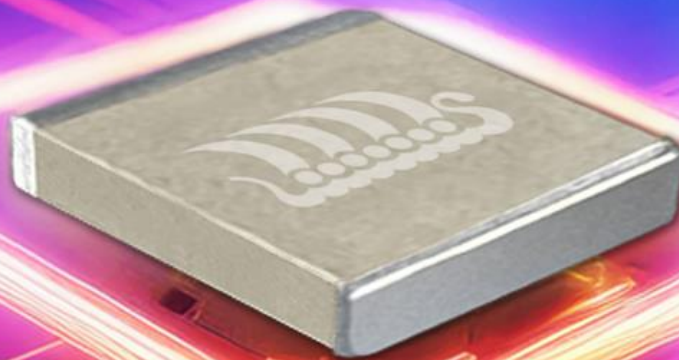


Supplier Quality Manual



JOHANSON 
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1. Johanson Quality Management System

1.1 Johanson Supplier Mission

Our mission is to deliver global, integrated supply chain materials and technology by leveraging standardized business processes and tools. We aim to optimize organizational capabilities, reduce waste, enhance predictability, and provide comprehensive value aligned with JOHANSON's business objectives. Our suppliers are critical partners, contributing to our success through quality, innovation, on-time delivery, and continuous improvement.

1.2 ISO-9001 & AS9100 Requirements

ISO 9001 is an international standard that outlines the requirements for a Quality Management System (QMS). Organizations adopt this standard to show their ability to consistently deliver products and services that meet customer and regulatory requirements.

For Critical suppliers, ISO 9001 certification or compliance is mandatory, critical suppliers with certification are not required to complete a survey (must provide active certification).

For Critical approved suppliers in Johanson's Approved Supplier List (ASL), an ISO 9001 certification or compliance to ISO9001 requirements is mandatory. For suppliers without third party certification, the following conditions are considered to allow the supplier to still be added to the ASL:

1. The supplier's QMS includes requirement to manage and comply with all statutory and regulatory requirements.
2. Johanson has approved the supplier to the ASL by means of risk assessment and/or supplier historical performance.
3. Have reasonable plans to achieve compliance to ISO 9001 certification.

1.3 Additional Johanson Requirements

In addition to ISO 9001 and AS9100 requirements, Critical and Non-critical suppliers that provide materials and/or services for JOHANSON automotive products are recommended to become IATF 16949 Quality Management System standards "as applicable" to the supplier.

In addition to ISO 9001 and AS9100 requirements, suppliers are required to comply with the following:

1.3.1 Product Safety

Suppliers shall have a documented process that manages product safety related issues during the product life cycle, up to and including statutory and regulatory requirements regarding product safety. Product safety requirements shall be flowed down to sub-tier suppliers.

1.3.2 Counterfeit

Suppliers shall have a documented process that addresses the identification and management of the risks associated with counterfeit products and steps and controls to prevent counterfeit materials. Counterfeit prevention shall be flowed down to sub-tier suppliers.

1.3.3 Foreign Object Debris (FOD)/Contamination

Suppliers shall have a documented process that addresses the prevention and management of FOD. The FOD prevention document should include prevention on the manufacturing floor (such as 5S and work instructions) as well as in the design and development process (such as the FMEA). FOD prevention shall be flowed down to sub-tier suppliers.

1.3.4 Second Party Audits

Suppliers may be subject to on-site and/or remote audits as part of a qualification, results of a non-conformance, or on-going supplier evaluations. Suppliers and sub-tier suppliers shall afford the right to audit and the right of access to JOHANSON, our customers, and regulatory agencies. Any invocation of the right to audit or right of access will be given reasonable notice as well as an audit plan.

1.3.5 Product and/or Service Conformity

Suppliers shall provide training to their personnel and ensure their awareness and contribution to the product and/or service conformity. This requirement shall be flowed down to sub-tier suppliers.

1.3.6 Material Specification and Contingency Planning

JOHANSON shall work with the supplier to establish any specification required for new material. If the supplier has an established specification for the material, the published specifications such as the certificate of analysis, certificate of conformance, drawing, or catalog description will be considered the specification. Published specification by the supplier assures that requirements are understood, are capable of meeting the requirements, as well as having contingency plans to assure the continuity of supply for the product.

1.3.7 Unsatisfactory Performance

Notification of unsatisfactory performance (e.g., product non-conformance, significant delivery delays, etc..) shall be communicated by JOHANSON electronically and in a SCAR form. Suppliers are expected to respond as quickly and effectively as reasonably possible to review and undertake requested actions.

In the event that a corrective action is requested, JOHANSON requires the use of the 8D problem solving approach. JOHANSON quality shall work with the supplier to bring open SCAR to a resolution.

1.3.8 Customer Specific Requirements (CSRs)

The supplier shall comply with any customer specification requirements. Any CSRs affecting the suppliers shall be communicated by JOHANSON.

1.3.9 Notifications to JOHANSON

The supplier is required to notify JOHANSON in writing and in advance in the following cases:

1. A change in the supplier's quality or environmental management system certification (e.g., ISO, AS9100, IATF...).
2. Actual non-conformance or potential non-conformance is detected post shipment.
3. Potential quality or delivery issues that could affect JOHANSON or our customers (Special Status Notification).
4. Any planned product obsolescent

1.4 ISO 17025 Requirements

Supplier management systems for the control of monitoring and measuring equipment (e.g. Calibration Houses) shall meet ISO 17025 requirements.

2. Supplier Hierarchy

2.1 Critical Suppliers

Critical Suppliers provide essential raw materials, equipment, and services that fall into two main categories

1. **Direct Materials:** These are the foundational raw materials essential to the product's construction and that define its form, fit, and function. They include, but are not limited to, dielectric powder, electrode ink, termination ink, and precision chemicals.
2. **Manufacturing Support:** This category covers the necessary equipment, fixtures tooling, and services required to fulfill manufacturing orders. Examples include test boards, equipment from manufacturers, calibration houses, cutting blades, specialized packaging (tape and reel, waffle, e-pak, and gel-pack, leads) and external subcontractors.

2.2 Non-Critical

Non-Critical Suppliers are defined as vendors who provide materials, equipment, or services that **do not affect the product's final form, fit, or function**. Their services are essential for supporting daily operations, facilities, and general infrastructure, rather than being integral to the manufactured product itself.

1. Non-Critical Materials

This category includes general consumables, chemicals, and industry-standard components used for operations, maintenance, and support:

- **Office Supplies**
- **Industry-Standard Component Replacements:** (standard wires, connectors, controllers, lights)
- **Consumable Chemicals and Cleaning Materials:** (alcohol, acetone, Simple green)

2. Non-Critical Services

This category comprises contractors and vendors who perform facility-related and support services:

- Facility repairs
- Equipment maintenance and installation
- Hauling services

When applicable, non-critical suppliers must be provided with the relevant EHS documentation, specifically the *Environmental, Health, and Safety (EHS) Awareness document (42F0037)* or the site-specific document (*4457F054*) for the Tijuana, Mexico location.

Exemption for Sample Engineering Orders and One-Time Purchases

Sample engineering orders and **one-time purchases** are considered exempt from standard supplier documentation and quality control procedures. This exemption is in effect **unless specified otherwise by Engineering and Quality**. Therefore, by default:

1. They **will not be added** to the Approved Supplier List (ASL).
2. They **do not require** incoming inspection.

3. Environmental Management System

JOHANSON is committed to the prevention of pollution by complying with all local states, federal environmental pollution regulations, legal requirements, and obligations; developing environmental objectives by evaluating production activities; and continually improving the environmental management system, to enhance environmental performance through periodic review of objectives and targets. JOHANSON encourages all suppliers to support JOHANSON through compliance with all local, state, and federal regulation as well as initiatives in reducing waste.

4. Change Notification

4.1 Process or Product Change Notification

JOHANSON requires critical suppliers to communicate process and design changes to JOHANSON with a minimum of 90 days to allow JOHANSON to meet and exceed its compliance with the QMS, business needs, and voice of the customer. Changes in, but are not limited to products appearance, formulation (including raw material formulation), sub-tier supplier, and manufacturing process.

4.2 Site Move or Relocation Notification

If a change of location (or the use of a sub-tier supplier) is unavoidable, JOHANSON requires Critical suppliers to provide a written notification to Johanson no later than 90 days prior to the change for review and approval. JOHANSON may require a documented transition and qualification strategy, as well as information on the change's primary causes.

4.3 Change Request

The supplier shall request Johanson in writing and must obtain approval prior to implementing the change. The supplier shall include the following information in the request:

- a) Part number(s) affected
- b) Lot number(s) affected
- c) Process document and paragraph number changed
- d) The purpose of the change
- e) A detailed description of the change
- f) When will the change be implemented

The supplier change request form is found in appendix A.

The request should be submitted to Johanson's quality department. A quality contact will be appointed that can provide a The supplier shall not make the change until Johanson has approved the written request.

5. Supplier Selection, Evaluation, and Metrics

5.1 Supplier Selection

JOHANSON uses controlled evaluation methods through which suppliers are selected and included in the Approved Suppliers List (ASL).

5.1.1 Supplier Assessment & Qualification

JOHANSON performs an assessment of new suppliers to determine the supplier's ability to deliver the best products and services to JOHANSON. This assessment will evaluate:

1. The supplier's ability to deliver defect-free products and/or services (Quality)
2. Meet delivery requirements (OTD)
3. Compliance with the QMS.

Along with the assessment, material qualification may be required for all products from critical suppliers. Any new part, module, and/or assembly from an existing approved supplier will require this qualification. Results from this qualification factors into criteria 1 (Quality). A qualification plan will be defined by JOHANSON based on the complexity and criticality of the product/process and may be reviewed with the supplier. Prototypes may be requested from the supplier to perform the qualification testing. Qualification reports are documented and recommendations to include materials in production originated by JOHANSON engineering.

Critical suppliers providing products or services to JOHANSON for 10 years or more are grandfathered into the approved supplier list.

5.2 Supplier Evaluation Score Card

JOHANSON evaluates Critical suppliers on an annual basis or if the supplier has been issued a SCAR, in which a non-critical supplier shall be evaluated if a SCAR has been issued.

The evaluation covers the following performance indicators:

1. Product quality
 - a. Quantity Rejected
 - b. Quantity Returns
2. Delivery
 - a. Total lines Received
 - b. On Time or Early Lines

It is incumbent upon suppliers to meet JOHANSON performance requirements. Suppliers' performance will be measured using an annual scorecard in combination with any Master Purchase Agreement (MPA) or Long-Term Supply Agreement (LTSA) between JOHANSON and the supplier. If no MPA or LTSA is in place, the JOHANSON Purchase Order Terms and Condition will be utilized.

5.3 Certificate of Conformance and Certificate of Analysis

To confirm that their products meet the specifications of our products, suppliers shall provide the Certificate of Analysis (C of C) and Certificate of Analysis (C of A) for products shipped to JOHANSON. JOHANSON Requires electronic format submission along with a physical copy.

6. Quality Tools

JOHANSON requires that the following quality tools are utilized according to the latest revision of the Automotive Industry Action Group (AIAG) reference manuals

6.1 Control Plan

The control plan shall appropriately reflect the same steps and flow established by the process flow diagram and Potential Failure Mode and Effects Analysis (PFMEA). Manufacturing and test procedures should be referenced in control plans and flow charts and, upon request, be submitted to JOHANSON.

6.2 Statistical Process Control (SPC)

Control the process using statistical approaches in accordance with the control plan to supply stable quality-level parts. The control chart should always be accessible to the line employees. For information on the nature and operation of the control chart, consult the AIAG SPC (Statistical Process Control) Reference Manual.

6.3 Advanced Product Quality Planning (APQP)

The procedures and schedules for product realization, from product development to mass production.

6.4 Potential Failure Mode and Effects Analysis (FMEA)

Unless otherwise specified, suppliers shall use the AIAG Potential Failure Mode & Effects Analysis (PFMEA) manual as the basis for creating this document. The PFMEA should follow the flow established in the process flow diagram. Failure modes shall specifically address the designated special characteristics. The PFMEA will be used as a continuous improvement tool.

6.5 Production Part Approval Process (PPAP)

All automotive production parts requiring a PPAP, as requested by JOHANSON, shall be at submission level 3. If any document cannot be prepared due to the type of production or transaction, the document submission level can be changed with JOHANSON approval. Refer to the PPAP manual (latest version) issued by AIAG for the levels and documents to be submitted.

7. Supplier Code of Conduct

The Supplier Code of Conduct contains principles on how Johanson expects its suppliers and service providers to conduct business. This Code of Conduct ripples the Code of Conduct published by the Electronic Industry Citizenship Coalition ("EICC"). In general, Johanson expects suppliers to obey all laws, regulations and other governmental authorities of any country in which they do business, and to conduct themselves in a professional and ethical manner. The supplier may be required to acknowledge the receipt and conformance to Johanson Supplier Code of Conduct (Johanson Document 851P706_).

APPENDIX A
Supplier Change Request Form

Change Type		Request Date	
Supplier Name		Requested Implementation Date	
Originator		Johanson ECN Number	
Title of Change			
Detailed Change Description			
Reason for Change			
Part Numbers Affected			
Dates and Lot Numbers Affected			
Implementation Plan (Actions, Tasks, Dates)			
Comments			

Johanson Approvals			
Department:	Name:	Signature:	Date:
Engineering			
Production Control			
Quality			
Comments:			