



Raw Material Quality Clause Requirements & other Supplier requirements

Quality Notes:

The following Q clauses in this section is the responsibility of your organization to comply. At the discretion of Titanium Industries, our Quality Department may elect at any time to review compliance to the below Q clauses;

Q001 Ethical Business Conduct

Q002 QMS Requirements.

Q005 Approved Supplier Listing

Q008 Copy Exact

Q009 Change Control

Q010 Record Retention

Q011 Right of Access

Q012 CI Confidential Information/IP Intellectual Property

Q013 DFARs/ACEA / ITAR (International Traffic in Arms Regulations)

Q016 Control & Monitoring of Suppliers

Q017 Other Applicable Items

Mandatory Section

The below Q clauses are Mandatory to all suppliers where they shall adhere and supply with each shipment made to Titanium Industries.

Q003 Purchase Order Instructions.

Q006 Chemical and Physical Analysis of Raw Materials

Q007 Certificate of Conformance

Q014 Nonconforming Product

Q015 Supplier Packaging Requirements

Supplier Performance Measurement

The performance of the contract will be measured by buyer for delivery to contract schedule, quality acceptance, and general performance evaluation.

Annual Representations and Certifications Seller shall establish and maintain Annual Representations and Certifications on at least an annual basis. Seller shall ensure its Annual Representation and Certifications are current, accurate and complete.

Q001 Ethical

Business Conduct

Titanium Industries Inc. (T.I.) and its Suppliers will conduct its business fairly, impartially, in an ethical and proper manner, to include the requirements for malpractice prevention, fraud & falsification and in full compliance with all applicable laws and regulations.. In conducting its business, integrity must underlie all company relationships, including those with customers, suppliers, communities and among employees. The



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highest standards of ethical business conduct are required of T.I. suppliers. T.I. and its Suppliers will not engage in conduct or activity that may raise questions as to the commitment to T.I.

Q002 QMS Requirements

Unless so specified by customer contract/PO, seller is expected to maintain certification to the most current revision for the following;

Raw Material Suppliers AS9100 (Aerospace), ISO 9001 (other industries)

Special Processes (NDT/HT/CP) Nadcap (Aerospace), ISO 9001 (other industries)

Calibrations ISO 17025, or ANSI/NCSL-Z540, or A2L, or ISO 9001 with calibration scope.

Grinding/Polishing AS9100 (Aerospace), ISO 9001 (other industries)

Q003 Purchase Order Instructions

It is the responsibility to comply with all purchase order instructions. Unless otherwise authorized the specified revision to the applicable drawings and instructions, as well as authorized changes there to, flowed down within the P.O., shall be 905S(tion)i2cthe P.O., 0 0 1 s31 C



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demonstrated through required testing. The specifications are effective only when the processing history, material form, and size are consistent with those required and/or assumed by the specification.

These other considerations, beyond composition and mechanical property tests, are very important. Statistically derived design allowances other than specification minimums, as well as secondary properties not routinely tested for in the material specifications, may vary for alternate product forms or sizes. The static mechanical properties tested in the material specs, namely ultimate tensile strength, yield strength and ductility, are merely a convenient set of easily performed tests, which when coupled with the product form, size and historical databases of secondary properties and statistically derived parameters may no longer be valid. Fracture toughness, stress rupture, fatigue resistance, and creep resistance are examples of significant design parameters that are generally not determined on each lot of raw material. Their values are based on the product form size, and standard industry practices used to make such product.

Q006 Chemical and Physical Analysis of Raw Materials

Each shipment of parts shall be accompanied by physical and chemical reports of analysis or tests conducted to insure that parts produced conform to the required specifications.

Q007 Certificate of Conformance

Reports (Full Pedigree From Melt to Final Product) Raw material certifications shall show clear traceability to the manufacturer(s) of the raw material including ingot source, all thermo-mechanical processing (i.e. forging, rolling, drawing, etc), heat treatment, chemical processing and inspections, original Mill Lab/test reports, as required by applicable raw material specification requirements.

Chain of Custody (Disguising intermediate ownership) Suppliers shall not disguise name, nomenclature or identification.

Material control is the responsibility of the supplier to properly identify, label, segregate, and maintain tracability to include multiple heat/lots and shall be identified as such on the C of C.

The substance of this Article shall be flowed in all subcontracts at every tier.



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1. Manufactures name and address.
2. Purchase order number.
3. Part number, revision and quantity.
4. Authorized _____ ure, title and date.
4. (a) Note: electronic signatures require control under a digital definition procedure.
5. Statement of conformance to all requirements and specifications with latest revision.
6. Parts manufactured in a mercury free environment statement and is lead free. Rohas/Reach compliant when required on PO
7. DFARS compliant when required on PO
8. No weld repair permitted, no seamed pipe permitted.

Q008 Copy Exact

Seller agrees to advise _____ authorized procurement Representative of any change, initiated by Seller to the design, form, fit, or function of the goods furnished under this contract. Furthermore, any change involving a substitution of material, changes _____ uring and/or acceptance processes, or changes in manufacturing

Procurement Representative for processing and review. Buyer will, within 15 days after receipt of the written notice:

Notify Seller of acceptance, rejection, or other status of such changes.

_____ written approval. Nothing contained in this clause will excuse Seller from performing in strict compliance with the terms, conditions, delivery schedule, specifications, or any other provision of this contract. Noncompliance with this change notification requirement will result in subsequent rejection of delivered items and actual and/or consequential damage.

Q009 Change Control

Suppliers are not authorized to make any changes to the design, material, supply chain, performance, fit, form and function of any product without written approval from Titanium Industries Inc. (T.I.). If the supplier makes any changes based on a verbal direction from any T.I. personnel, the items will be subject to rejection and returned for rework/replacement to conformance with the requirements of purchase order.



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Process improvement changes that directly affect the material specification shall be the responsibility of the supplier to notify TI for approval prior to any shipment of product.

Unauthorized material subs

Unauthorized material substitution includes any deviation from the engineering definition of a raw material. Engineering definition includes Buyer design drawing and applicable specifications, product specification, form, size, shape, chemistry, melt method, origin, temper/condition, product testing or surface finish.

Temper or Condition Conversion Unless specifically authorized by T.I. conversion of a raw material (i.e. heat treat to change the temper or condition of the material) constitutes material substitution of the condition provided by the manufacturer.

Seller shall ensure that metallic materials covered by current or obsolete/superseded specifications are produced using the standard industry prrion of the condition provided b591 Tm



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the requirements of this contract. Seller shall be liable for all costs related to the replacement of counterfeit goods and any testing or validation necessitated by the installation of authentic goods after counterfeit goods have been replaced. The remedies contained in this article are in addition to any remedies Buyer may have at law, equity, or under other provisions of this contract.

Seller bears responsibility for procuring authentic Goods or items for its subcontractors and shall ensure that all such subcontractors comply with the requirements of this article.

Q010 Record Retention

The contractor shall maintain adequate records of all inspections and tests. The records shall be traceable to shipped lots. During the performance of this contract and for a period of fifteen (15) years after acceptance of all goods to be delivered under this contract, Seller shall keep and maintain all inspection and test records, and all other technical data generated under or related to this contract including, but not limited to, drawings, designs, specifications, and manufacturing and process control records. Upon request, Seller shall make available for inspection, and shall allow Buyer to make copies of, and take excerpts from, all such records and data

Q011 Right of Access

The contractor shall provide Titanium Industries Inc. (T.I.), our customers, and regulatory authority access to all facilities involved in the order and to all applicable records.

Q012 CI Confidential/IP Intellectual Property

Intellectual Property (IP) is a customer requirements extended to any sub-tier supplier being utilized to perform any procedure and/or process and information must be included within the Titanium Industries Inc. (T.I.) traveler.

Q013 ACEA/ITAR (Arms Export Control Act & International Traffic in Arms Regulations)

Information and material pertaining to defense and military related technologies may only be shared with U.S. persons unless authorization



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Suppliers shall be initially evaluated through a survey and or onsite auditing based upon level of business. Suppliers will be raccessed as seen fit by Titanium Indutries.

Q017 Other applicable items

Suppliers and their personnel must be aware of their contributions to product or service conformity for the material they are providing to Titanium Industries.

Suppliers must be aware of their contributions for product safety as it interacts with processing our orders and supplying material to Titanium Industries.

In addition to **Q001**, Suppliers personnel are also required to understand the importance of ethical behavior as it applies to the product and services they provide Titanium Industries.