



Q-CODE Q45H QUALITY REQUIREMENTS

ACCEPTANCE OF SUBCONTRACTED GOLD REMOVAL/TINNED PARTS PER J-STD-001 FOR DRS PROGRAM

The following are the quality requirements for product purchased under Q-Code Q45H. These requirements are specific to our customer Leonardo DRS Naval Power. Unless a written waiver is received from Plexus, the supplier agrees to abide by the quality requirements listed below. This includes but is not limited to:

- Granting the right of access to the supplier's facilities and all applicable records to Plexus, their customer Leonardo DRS Naval Power and regulatory authorities with the acceptance of the Purchase Order
- Flow down all applicable requirements to sub-tier suppliers including key characteristics
- Retention of all records for a minimum of 7 years that support the manufacturing or material per the requirements of this Plexus customer.

ALL SHIPMENTS

SHIPMENTS AND HANDLING OF EXPORT CONTROLLED ITEMS, DATA, OR SERVICES

The Supplier agrees to comply with The Arms Export Control Act, 22 U.S.C 2751-2794, the International Traffic in Arms Regulation (ITAR), 22 C. F. R. 120 - 130, the Export Administration Act, 50 U.S.C. app 2401-2420, and the Export Administration Regulations, 15 C.F.R. 730-774 for this product, all specifications, and associated documentation. This includes, but is not limited to:

- Export controlled items, data, services, or any element thereof, shall not be exported from the United States without U.S. Government authority and the express written authorization of a Plexus ITAR Empowered Official.
- Export controlled items, data, or any element thereof, shall not be transferred or disclosed to foreign persons including transfer to foreign persons employed by or associated with, under contract to Sub-tier suppliers including transportation carriers.
- Import licenses will be provided with all shipments where applicable.

PROHIBITED MATERIALS

Unless specifically called out by DRS-CCI procurement documents or approved drawings, the material listed in Table 1 below shall not be used in the manufacturing of items delivered to DRS-CCI.

Exceptions can be requested via the Plexus deviation process.



Table 1: Prohibited Materials

ADHESIVE TAPE	CORK	POLYCHLORINATED BIPHENYLS (PCBs)
ALUMINUM ELECTRICAL CONDUCTING WIRE	CORROSION INHIBITORS	POLYVINYL CHLORIDE (PVC)
ALUMINUM ALLOY	FLAMMABLE MATERIALS	RADIOACTIVE MATERIALS
ANTIMONY AND ALLOYS	FRAGILE OR BRITTLE MATERIALS	SELENIUM
ASBESTOS	FREON SOLVENTS	SILICONE
BARIUM	LEAD AND ALLOYS	SILVER
BISMUTH AND ALLOYS	LIQUID MASKING MATERIALS (FOR ELECTRICAL CONNECTORS AND SOCKET MOUNTED COMPONENTS)	TEFLON
BORON TRIFLUORIDE	LITHIUM	THERMAL COMPOUND (FOR ELECTRICAL CONNECTORS AND SOCKET MOUNTED COMPONENTS)
BRASS WITH Pb >1%	LOW DUCTILITY MATERIALS	THIOSULFATE
BRONZE WITH Pb>1%	LOW MELTING POINT METALS	TIN AND ALLOYS
CAST IRON AND CAST ALUMINUM	MAGNESIUM	ZINC, ALLOYS AND CHROMATES
CADMIUM AND CADMIUM PLATING	MERCURY AND MERCURY COMPOUNDS	ZINC PLATING, GALVANIZING, HEXAVALENT CHROMIUM AND PLASTIC COATINGS
CHROMIUM % CHROMIUM COMPOUNDS (INCLUDING HEXAVALENT CHROMIUM)	OZONE DEPLETING SUBSTANCES	

All Shipments

The documentation and quality requirements for the initial shipment and/or the first shipment after any changes have been made, are as follows:

- A. Certificate of Compliance - the Certificate of Compliance (COC) must be titled as such and shall include a statement declaring that the manufactured/materials item has been made to the appropriate customer specification requirements per J-STD-001. The COC shall contain the following minimum information:
 - a. Plexus Part Number
 - b. Plexus PO Number and Quantity
 - c. Original Component Manufacturer Name, Part Number, and Date Code(s)
 - d. Certification to the requirements of this Quality Code and revision level
- B. Certificate of Analysis - or Equivalent which shall include a statement declaring that the manufactured/materials item has been tested to the appropriate specification requirements and the following minimum information:
 - a. Name of Manufacturer
 - b. Manufacturer's Item Number
 - c. Batch or Lot Number
 - d. Manufacture Date
 - e. Expiration Date*
 - f. Product Properties and Analysis Results

**The remaining shelf life of the material must be greater than 50% of the stated shelf life.*
- C. The following requirements shall be followed if applicable to the order and certified on the COC:
 - a. All parts must be baked 48 hours at 125°C regardless of component manufacturer's MSD level.
 - b. Solder tinning material is defined by PO Item Number prefix: 'T1' for Sn63/Pb37 (eutectic), 'T2' for Sn96.5/Ag3.5 (Pb-free), 'T3' for Sn5.0/Pb93.5/Ag1.5 (high-melting point) and 'T4' for Sn96.5Ag3Cu0.5.

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- c. Manufacturer part numbers shall not be mixed in final component packaging.
- d. Manufacturer date codes / lot codes cannot be mixed in final component packaging.
- e. Original component manufacturer labels shall be returned with the completed parts affixed to the moisture-barrier bag.
- f. All MSD level 1, 2, and 3 parts shall be processed and marked as MSD level 3 per J-STD-033. Parts with MSD levels greater than 3 shall be processed and marked per their specified level.
- g. Pin 1 orientation in carrier tape per component manufacturer tape-and-reel specification. Packaging medium specified by last character of PO Item Description: 'R' for T&R, and 'W' for tray. Absence of either of these codes implies that parts be returned in their original packaging.

- D. All test and inspection records provided with shipment shall have the following statement on the document: "The recording of false, fictitious or fraudulent statements or entries on this document may be punishable as a felony under Federal Statute."

The above listed required documentation must be submitted with each shipment. Shipments received without the proper execution and completion of these Quality Requirements is considered non-conforming and Plexus reserves the right to return to the supplier at the supplier's expense.

PRODUCT CHANGE NOTIFICATION

Product or Process change notification (PCNs) shall be submitted to pcns@plexus.com, please reference the details of our PCN policy and requirements in the Plexus Supplier Quality Manual, [DCS 10503](#).

REVISION HISTORY

REV	RELEASE DATE	ORIGINATOR	DESCRIPTION OF CHANGE(S)	REASON FOR CHANGE(S)
A	6-Feb-2024	Jorge Irizarry	New - Initial Release	Specific requirements for 20H Prohibited materials.
B	18-Apr-2024	Jorge Irizarry	Added to the prohibited materials list.	Customer added to the prohibited materials list.