



Triumph Group Supplier Quality Alert

Supplier Alert No. 0012

Issued: 03 December 2018

Subject: Heat Treat Traceability to each Individual Part

Purpose: This letter is to ensure our suppliers are meeting Triumph Group's expectation to meet the requirements for tracing the history of the supplier's Heat Treating process application, equipment and location for each individual part by means of quality records and part identifications at the supplier's locations and the supplier's sub-tiers.

Background: During audits performed by Triumph Group within our supply base, it was found that not all individual parts heat treat processes were traceable.

Reference: AS9100 Rev D, NADCAP AC7104, AMS 2750 and the Triumph Group SQAM001

Applies To: All suppliers that deliver heat treated products

Seller shall comply with the AS/EN/JISQ 9100 and Triumph Term and Conditions for records requirements, NADCAP AC7104 and Triumph Group customers specifications for heat treating materials. The seller shall ensure all heat treating facilities used for Triumph products are approved by Triumph or Triumph's customers as listed in the applicable Approved Special Processors Listing (ASPL) or Qualified Processor List (QPL) per the SQAM001 Section 4.5.

Seller shall maintain heat treat traceability records for each heat treat lot/job that shall include but are not limited to; shop travelers/work orders that must state the tolerance and record for the heat treat lot, furnace charts, soak time, intermediate temperature, leak rate, cooling rate, load thermocouples when required, refrigeration controls, various types of logs and logbooks, logs for time-in/time-out, dew point logs, calibration and maintenance records, direct verification of hardness, training records, document change records, customer documents such as purchase orders, packing slips, approvals, etc.

Seller shall ensure their heat treat integrated data acquisition system document all specification-required furnace parameters and tolerances and must monitor them at a sufficient frequency to detect and document any out of tolerance conditions per AMS 2750 or Triumph and/or Triumph customer specification.

Suppliers are responsible to review requirements, determine contractual impact and notify the applicable Triumph Quality or Procurement representative of the impact, if any, and take necessary actions to ensure compliance to requirements of Supplier Quality Alerts.

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Seller shall, within its organization and its supply chain, shall ensure that all Special Process out of tolerance conditions are recorded on a Nonconformance Report.

Seller shall effectively monitor their sub-tiers to ensure compliance to all heat treating requirements.

Action Required:

- Seller to ensure compliance to the above requirements
- Seller to communicate the above requirements to its employees and to its supply chain
- Seller to perform an internal audit by January 25th, 2019 to ensure compliance to Heat Treating requirements
- Seller to document and make the internal audit records and the communication to its supply chain available to Triumph Group for review by February 04th, 2019 by submitting the documents to Mitch Kline at mkline@triumphgroup.com

Regards,

Mitch Kline
Supplier Quality Assurance
Triumph Group
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mkline@triumphgroup.com

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