

Quality Assurance Procurement Requirements – QAPR's
Revision: L, Dated: 5/11/21

QAPR # 001 - Shelf life and temperature sensitive materials:

Seller shall identify all materials and articles that have definite characteristics of quality degradation with age or environment. Such items will be individually labeled with the expiration date. If environment is a factor, environmental limitations shall be so noted on the product. Items received by MISTRAS must indicate a minimum of 70 % of the rated shelf life remaining, or the product will be returned to the seller.

QAPR # 002 – MSDS Sheets:

Materials noted on this purchase order must be supplied with OSHA's hazard communication standard 29CFR1910-1200. Materials not compliant will be returned.

QAPR # 003 - Certificate of Conformance:

Each shipment of materials or parts so designated shall be accompanied by a legible Certificate of Conformance bearing the signature of the responsible representative stating that the product meets the requirements of specifications noted on the purchase order.

QAPR # 004 - Material Test Reports:

Material test reports shall contain the specification(s), heat, batch or lot numbers. The report shall contain actual numerical values for the characteristic(s) tested.

QAPR # 005 – Subcontracting:

No use of subcontractors is allowed without prior written approval from MISTRAS.

QAPR # 006 - Report of discrepancy:

Any deviation from drawing or specification will be documented by the supplier and reported to MISTRAS.

QAPR # 007 - Certificate of Calibration:

The requirements of 100-QC-008.0, Supplier Quality Requirements apply.

Required specification(s), services, tolerances, and frequencies are listed in this document

The certificate of calibration, in accordance with ANSI /NCSL Z540-1 shall include the following:

- The name and address of the organization performing the calibration.
- The part name, manufacturer, model number and serial number
- Condition of item "as received"
- Date of Calibration
- Date current calibration expires
- Specification(s) or procedure(s) calibrated in accordance with.
- Any standards used and a statement describing standard traceability.
- Any adjustments or repairs required.
- The name and signature of the person performing the calibration.
- Actual numerical values and deviations for all tests performed.

QAPR # 008 – Magnetic Particle Yokes must meet the requirements of ASTM E1444 and T9074-AS-GIB-010/271

QAPR # 009 - Dry Visible Magnetic Particles will be certified to AMS 3040

QAPR # 010 - Magnetic Particle inspection vehicle certified to AMS 2641

QAPR # 011 - Wet Visible Magnetic particles will be certified to AMS 3042

QAPR # 012 - Wet Fluorescent Magnetic Particles will be certified to AMS 3044

QAPR # 013 - Wet Fluorescent Magnetic Particles, Aerosol packaged, Oil based particles will be certified to AMS 3046

QAPR # 014 - Wet Visible Magnetic Particles, Aerosol packaged, Oil based particles will be certified to AMS 3043

QAPR # 015 - All Penetrant materials will be certified to AMS 2644 and/or MIL-I-25135

QAPR # 016 - Radiographic penetrameters will be certified to one of the following specifications:
T9074-AS-GIB-010/271
ASTM E1742 (*Previously MIL-STD-453*)
ASTM E1025

QAPR # 017 - Radiographic film will be classified in accordance with ASTM E1815

QAPR # 018 - Radiographic survey instruments must be in compliance with 10CFR part 34, paragraph 34.25. The as received value shall be in the calibration data.

QAPR # 019 - Film badges must be processed by a member of the National Voluntary Laboratory Accreditation program.

QAPR # 020 - Pocket dosimeters must comply with 10CFR part 34. Paragraph 34.47

QAPR # 021 – All eddy current reference standard certifications must reflect the following information:

- Reference standard part and serial number
- Material alloy and/or temper
- The surface finish
- Dimensional data
- Traceability to NIST
- The signature of the individual certifying the data.
- The date of the certification.

QAPR #022 – All materials and services received under this purchase order are subject upon arrival to MISTRAS Receiving Inspection with certification of conformance required.

QAPR #023 – Acceptance of this Purchase Order authorizes MISTRAS Inspection full right of entry. Such right of entry shall extend to our customers or their representatives and regulatory Agencies to any place necessary to determine and verify the quality of contracted work, records and material, and further, to verify the contracted product conforms to the specified requirements. Sub-contracting cannot be done without prior written approval of MISTRAS Quality Assurance.

QAPR #024 – Boeing approval or certification required.

QAPR #025 – Ultrasonic Transducers require the following:

1. Shall be serialize and identified with frequency and Part Number
2. Certification shall be per ASTM E1065, data on Center Frequency response, Bandwidth, Focal length, and Beam Profile (note: Beam Profile is applicable to Focused beam search units).
3. Paint Brush or Array Transducer shall have a beam uniformity of 10%
4. Addition requirements will be noted on the purchase order as required.

Note: Failure to satisfy these requirements will result in return of transducers and non-payment of all charges including freight both ways.

QAPR #026 – Three-point calibration requirement. All equipment that require calibration, shall have at least 3 reference points that are above, below and ‘in the middle’ of Instruments operating range depending on the instrument in use. The calibration data issued shall clearly contain as received or as found data as well as calibrated data.

QAPR#027 – Equipment requiring calibration shall comply with Procurement of Equipment and Services procedure(s) 100 / 591-QC-008

QAPR#028 – Supplier shall have on file for ten years after final delivery of a Mistras Services.

At the conclusion of this time period, the Supplier shall make a written request to Mistras for permission to destroy the records, package and ship the records to Mistras Services, maintain the records or any combination of the above. Copies of retained records shall be furnished to Mistras upon request.



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INTERNAL INSTRUCTIONS FOR MISTRAS BUYERS:

When ordering inspection media, equipment calibration, standards etc, we must list the appropriate specification, where applicable. A list of such specifications should be provided.

When ordering, you must be specific as to what you are ordering: For instance, do not order red mag powder. Order: Magnaflux 8A Red Powder in accordance with AMS 3040 and ASTM E1444-01. Specify the amount ordered and how packaged, if applicable; for example, 25 pounds in 5 each five pound containers, or, 1 each 25 pound bucket.