

DATA ITEM DESCRIPTION

Form Approved
OMB No. 0704-0188

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|---|--|--|----------------------|
| 2. TITLE Certification Data for Non-Nuclear Level I Material | | 1. IDENTIFICATION NUMBER DI-MISC- 81020 | |
| 3. DESCRIPTION/PURPOSE 3.1 The certification data for non-nuclear Level I report describes the minimum vendor certification data reporting requirements for chemical composition, mechanical properties and traceability requirements for Level I material. | | | |
| 4. APPROVAL DATE (YYMMDD) 900611 | 5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) N/SEA 07Q | 6a. DTIC APPLICABLE | 6B. GIDEP APPLICABLE |
| 7. APPLICATION/ INTERRELATIONSHIP 7.1 This Data Item Description (DID) contains the general format and content preparation instructions for the data product generated by the specific and discrete task requirement as delineated in the contract. 7.2 This DID supersedes UDI-T-23191B and DI-MISC-80705. | | | |
| 8. APPROVAL LIMITATION | 9A. APPLICABLE FORMS | 9B. AMSC NUMBER N4960 | |
| 10. PREPARATION INSTRUCTIONS 10.1 <u>Content and Format.</u> Content and format for the required certification data report is represented by an example provided on page 3. 10.1.1 <u>Data Content.</u> Material certification data shall include quantitative chemical composition and mechanical properties required by specification and contract. Material certification test reports shall be traceable to the material through unique traceability codes marked on the material. The material traceability marking shall be maintained through all phases of fabrication and manufacturing. | | | |
| 11. DISTRIBUTION STATEMENT Distribution Statement A: Approved for public release; dist. is unlimited | | | |

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Block 10. PREPARATION INSTRUCTIONS (Continued)

- 10.1.2 Data Format. Material certification data shall be recorded on the testing company's letterhead and bear the date, name (typed or printed), organizational title, and signature of the authorized representative of the company. Certification data supplied to the Government shall be either the original mill material certification or the original material certification from the testing facility. Exact photocopies of certification data are acceptable.
- 10.2 Certification Data Required. Certification data must represent the finished product. If the starting material or raw stock is processed in a manner that will not affect its chemical composition or mechanical properties (e.g. machining), the original mill certification is acceptable. Recertification of the mechanical properties or chemical composition is required if a metal working process or alloying used during fabrication alters the original condition of the material. The mechanical properties or chemical composition of the material must be re-determined and be representative of the altered condition. The altered mechanical properties or chemical composition must be within specification and be part of the certification data submitted to the Government. The altered material shall be uniquely re-identified (marked), and traceable to certification data.
- 10.3 Foreign Certification. In cases of foreign certification, traceability or conversion of foreign language or units of measure into English or current U.S. units of measure shall be annotated on the furnished foreign certifications, if space permits, or placed on an addendum in the same format as the foreign certification data. Such translation or conversion shall be identified as to origin with name, title, signature, and date of the authorized representative of the company making the translation or conversion.

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EXAMPLE OF CERTIFICATION DATA REPORT

CERTIFICATION OF TESTS

TESTING LABORATORY NAME

DATE _____

CUST ORDER NO. N00104-84-M TR57OUR ORDER NO. P034784MATERIAL MonelFINISH Hot FinishedTYPE IICLASS ACONDITION ANNEALEDSPEC QQ-N-281

CHEMICAL COMP — PERCENT

REV. D

| ITEM | HEAT NO. | C | MN | SUL | SI | NI | FE | CU | AL |
|------|----------|-----|------|------|-----|-------|------|-------|-----|
| 1 | A123B | .16 | 1.06 | .015 | .29 | 64.78 | 1.66 | 31.91 | .12 |
| 2 | A124B | .17 | 1.15 | .013 | .29 | 64.84 | 1.69 | 31.66 | .14 |

MECHANICAL PROPERTIES

| ITEM | HEAT NO. | TENSILE STRENGTH (PSI) | (.2% OFFSET) YIELD STRENGTH (PSI) | ELONGATION IN 2 INCHES |
|------|----------|------------------------|-----------------------------------|------------------------|
| 1 | A123B | 84,300 | 36,300 | 43% |
| 2 | A124B | 84,000 | 36,100 | 43% |

Sampling for tests was done in accordance with QQ-N-281D.

We hereby certify that the above test data are in accordance with the specification requirements.

Signature

Name (typed or printed) and organizational title