



A-MI-7
Effective: 4-2-08
Cancels: A-MI-7, 1-10-00

SPECIFICATIONS COVERED

NRC Guide 1.36, MIL-I-24244B/C, Plastic Wrapping, ASTM C 547 (HH-I-558B); MIL-I-22344B/C; ASTM C 1136 (HH-B-100B).

GENERAL PROCEDURES

A Product Quality Certification will only be issued when it is requested in writing on the purchase order. The certification wording and other details are shown below for each of the specifications covered.

A. NUCLEAR REGULATORY COMMISSION GUIDE 1.36: NONMETALLIC THERMAL INSULATION FOR AUSTENITIC STAINLESS STEEL.

1. **General:** Micro-Lok *HP* — Available only from Defiance, OH and can be plain or jacketed material. Chemical analysis is run on each lot; date codes covered by any particular lot are determined by the manufacturing plant. Any requirement for plastic wrapping to limit contamination must be specified on the purchase order and is not part of NRC 1.36. (For cost, see Section C.) Spin-Glas Products — Available from Cleburne, TX only and can be plain or faced materials. Chemical analysis is run on each lot; date codes covered by particular lot are determined by manufacturing plant.
2. **Lot Size:** All materials produced within a limited time period and offered for delivery at one time. Plant Quality Control will advise the number of lots involved for each order.
3. **Cost:** Micro-Lok *HP* or Cleburne Spin-Glas Products:

<u>Order Size (cartons)</u>	<u>Charge (\$)</u>
1 – 10	75.00
11 – 30	150.00
31 – 100	225.00
101 – 149	300.00
150 – Full Truckload	350.00

4. **Pallet and/or Stretch-Wrap Charge:** \$40.00 per pallet.
5. **Lead Time:** Seven (7) working days.
6. **Data Supplied:** The certification will be accompanied by the chemical analysis for each lot and the preproduction qualification results.
7. **Sample Certification:**
 “This is to certify that specific required testing and the Seller’s standard procedures have been used in the inspection of the material covered by this order. This inspection indicates that the material tested for the Seller’s Order Number _____ complied with the requirement of U.S. Nuclear Regulatory Commission Guide 1.36. Results of the lot tests and preproduction qualification test are attached”.

B. MIL-I-24244B/C: INSULATION MATERIAL WITH SPECIAL CORROSION, CHLORIDE AND FLUORIDE REQUIREMENTS.

1. **General.** Available only from Defiance, OH and only plain material. Because of the complexity and variations in military requirements, a copy of the Government purchase order is requested by Plant Quality Control to ensure proper certification. A chemical analysis must be run on each lot; this cannot be waived. Any requirement for plastic wrapping to limit contamination must be specified in the purchase order, as one of the packaging options of the spec. (For cost, see Section C.) The properties of Fire Hazard Classification, Corrosiveness, Temperature Rating, Moisture Absorption, and Thermal Conductivity are tested periodically but are not tested for each lot certification. Data is on file demonstrating compliance to these properties. MIL Std. 105 level S-2 is used for inspection.
2. **Lot Size:** Number of sections offered for delivery at one time.

3. **Cost:** \$400 for orders with 1-100 cartons and \$2 for each carton over 100, plus testing charges shown in Table 1 based on total number of sections ordered. Testing costs only cover chemical testing. If stress corrosion test is required, each test will cost \$1200 and must be specified as part of the purchase order.

	<u>Lot Size</u>	<u>No. Samples</u>	<u>Testing Cost (\$)</u>
Table 1	0 – 63	1	350
	64 – 160	2	700
	161 – 400	3	1,050
	401 – 1,000	5	1,750
	1,001 – 2,500	8	2,800
	2,501 – 6,300	13	4,550
	6,301 – 16,000	20	7,000
	Over 16,000	32	11,200

4. **Lead Time:** 8 weeks.
5. **Data Supplied:** The certification will be accompanied by the chemical analysis for each lot and the preproduction qualification results.
6. **Sample Certification:** See A-7 (previous page) with MIL-I-24244B/C in place of NRC Guide 1.36. In addition, the following statement will be given.
 "We certify that the product produced did not come in contact with mercury-bearing compounds, nor mercury-bearing instruments and/or equipment in a manner that would cause contamination in the manufacture of this material."

C. PLASTIC WRAPPING TO PROTECT FROM CONTAMINATION.

1. **General:** When specified on the purchase order, each carton will be lined with a polyethylene bag and sealed around the insulation.
2. **Cost:** \$5 per carton.

D. ASTM C 547: MINERAL FIBER PREFORMED PIPE INSULATION.

1. **General:** The properties of linear shrinkage and thermal conductivity are tested periodically but are not tested for each lot certification. Data is on file demonstrating compliance to these properties.
2. **Lot Size:** All material supplied to the specific order.
3. **Cost:** No charge unless sampling is required per ASTM C 390. In such cases, cost is \$200 per order.
4. **Data Supplied:** Test data will be kept on file and will not be submitted with the certification unless so specified on the purchase order.
5. **Sample Certification:** See A-7 with ASTM C 547 in place of NRC Guide 1.36.

E. MIL-I-22344B/C/D: INSULATION, PIPE, THERMAL, FIBROUS GLASS.

1. **General:** The seller has the ability to certify to this specification. However, because of the complexity and variations in military requirements, a copy of the Government purchase order is requested by Plant Quality Control to ensure proper certification.
2. **Cost:** No charge unless special package or sampling is required.

F. HH-B-100B, TYPE I: BARRIER MATERIAL, VAPOR.

1. **General:** This specification applies to the ASJ SSL jacket on Micro-Lok® HP high performance fiber glass pipe insulation. This is a vendor item to the seller so certification from the seller is based on certification from the jacketing manufacturer.
2. **Cost:** No charge unless special package or sampling is required.
3. **Sample Certification:**
 "This is to certify that affidavits from the vendor are on file and certify that the material complies with the requirements of specification ASTM C 1136, Type I, and that the results are available for inspection."



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