



Standard Specification for Asbestos Lap¹

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1. Scope

1.1 This specification covers asbestos lap, a felted asbestos product, having a minimum of 75 mass % of asbestos fiber.

1.2 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

1.3 The following safety hazards caveat pertains only to the test methods, Section 12, described in this specification: *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

D 123 Terminology Relating to Textiles²

D 1118 Test Method for Magnetic Rating of Asbestos Fiber and Asbestos Textiles³

D 1918 Test Method for Asbestos Content of Asbestos Textiles³

D 2946 Terminology Relating to Asbestos³

3. Terminology

3.1 For definitions of other textile terms used in this specification refer to Terminology D 123. For asbestos terms refer to Terminology D 2946.

3.2 Definitions:

3.2.1 *asbestos*—a group of impure silicate minerals occurring in fibrous form.

3.2.2 *asbestos fiber*—the hydrous magnesium silicate serpentine mineral designated as chrysotile and having the empirical formula $\text{Mg}_3\text{Si}_2\text{O}_5(\text{OH})_4$.

3.2.3 *atmosphere for testing textiles— for asbestos*, air maintained at a relative humidity of $50 \pm 2\%$ at $21 \pm 1^\circ\text{C}$.

3.2.4 *lap, n—for asbestos*, a flat compressed form of carded or otherwise felted asbestos fiber, with or without carrier fibers.

3.2.5 *magnetic rating (MR)*—an empirical value that reflects the effect of magnetic particles, such as magnetic iron compounds, in asbestos material as measured by a magnetic analyzer.

NOTE 1—Magnetic rating is not a quantitative measure of the number or mass of magnetic particles in the material.

4. Classifications

4.1 *Styles*—The style of asbestos lap refers to the physical construction. Two styles are available:

4.1.1 *Style 1*—A single compressed flat formation of carded or otherwise felted asbestos fibers, and

4.1.2 *Style 2*—A flat parallel assemblage of compressed carded asbestos slivers.

4.2 *Grades*—The grades of asbestos lap are based on the mass percentage of asbestos content as stated in Table 1.

4.3 *Mass per Unit Length*—Asbestos lap is normally furnished in the following nominal linear densities:

g/m	(lb/100 yd)
20	(4)
50	(10)
70	(14)
100	(20)
150	(30)

Other linear densities may be furnished as agreed upon between the purchaser and the seller.

4.4 Types:

4.4.1 Asbestos lap as made for the electrical industry is furnished in three types, classified on the basis of magnetic rating determinations (Test Method D 1118) as follows:

4.4.2 *Type II (Magnetic Rating 0.75 Maximum)* is intended only for special applications where the asbestos is of primary importance as electrical insulation used on magnet wire and when used primarily as a dielectric.

4.4.3 *Type IV (Magnetic Rating 2.00 Maximum)* is intended for use where the asbestos is of secondary importance as electrical insulation and where it is applied in combination with other materials of comparably higher dielectric strength, as in the construction of heat and flame resistant electrical insulating walls over unit conductors of electric cables.

4.4.4 *Type VI (Magnetic Rating 4.00 Maximum)* is intended for use where the asbestos is of minor importance as a dielectric, as in the construction of filler or heat and flame resistant walls of electric cables or when used as a lining for control enclosures subject to exposure to electric arcs (arc chutes).

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² Annual Book of ASTM Standards, Vol 07.01.

³ Annual Book of ASTM Standards, Vol 04.05.

