

AEROSPACE MATERIAL SPECIFICATION

AMS 3217/3A

Submitted for recognition as an American National Standard

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Superseding AMS 3217/3

TEST SLABS, CHLOROPRENE (CR) 65 - 75

- SCOPE: 1.
- 1.1 Form:

ubbe, of and of and the full PDF of and the fu This specification covers a standard chloroprene (CR) rubber stock in the form of molded test slabs.

1.2 Application:

See AMS 3217.

2. APPLICABLE DOCUMENTS:

See AMS 3217.

- TECHNICAL REQUIREMENTS:
- 3.1 Basic Specifications:

The complete requirements for test slabs described herein and their procurement shall consist of this document and the latest issue of the basic specification AMS 3217.

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3.2 Material:

(R)

Shall be a chloroprene (CR) compounded to the formulation shown in Table 1.

Table 1 - Formulation

Ingredients	NIST SRM Number	Parts
Neoprene WRT® Maglite D® or equivalent* Stearic Acid Agerite Stalite S® or equivalent* Zinc Oxide Philblack A®, N550 or equivalent*	372 - 370	100.0 (See 3.2.1) 2.0 (See 3.2.1) 0.5 (See 3.2.2) 2.0 (See 3.2.2) 5.0 (See 3.2.2)
(See 3.2.3) Thiate-U® or equivalent*	W POF	50.0 (See 3.2.1) 0.7 (See 3.2.2)

Press Cure: 20 minutes \pm 0.5 at 155 °C \pm 3 (311 °F \pm 5).

- 3.2.1 Weigh parts to the nearest 0.1 gram.
- 3.2.2 Weigh parts to the nearest 0.02 gram.
- 3.2.3 ASTM D 1765 designation.
- 3.3 Processing:

After the elastomer has banded on the rubber mill, the other ingredients shall be added in the order listed in Table 1.

- 3.3.1 The stock shall not be allowed to become hotter than can be handled with the bare hands; it is recommended that the stock be removed from the mill and cooled to room temperature before incorporating the final ingredient.
- 3.3.2 After all ingredients have been incorporated and the stock has been thoroughly milled, the stock shall be passed 10 times through a tight mill.
- 3.3.3 Suitable preforms shall be cut from the freshly milled stock and molded into test slabs as specified in ASTM D 3182, Figure 1.

^{*}Equivalent ingredients must be approved by Wright Laboratory (WL/MLSE), WPAFB, OH 45433-6533.