

NOT MEASUREMENT
SENSITIVE

MIL-STD-709D

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SUPERSEDING

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DEPARTMENT OF DEFENSE
DESIGN CRITERIA STANDARD
AMMUNITION COLOR CODING



AMSC N/A

FSC 1395

MIL-STD-709D

FOREWORD

1. This Military Standard is approved for use by all Departments and Agencies of the Department of Defense.
2. This standard covers the procedure for establishing ammunition color coding.
3. Comments, suggestions, or questions on this document should be addressed to: Commander, U.S. Army ARDEC, ATTN: RDAR-AAR-QES-E, Picatinny Arsenal, New Jersey 07806-5000 or e-mailed to ardecstdzn@conus.army.mil. Since contact information can change, you may want to verify the currency of this information using ASSIST Online database at <http://assist.daps.dla.mil/quicksearch/>.

MIL-STD-709D

CONTENTS

| <u>PARAGRAPH</u> | | <u>PAGE</u> |
|------------------|---|-------------|
| | <u>FOREWORD</u> | ii |
| 1. | <u>SCOPE</u> | 1 |
| 1.1 | <u>Scope</u> | 1 |
| 1.2 | <u>Classification</u> | 1 |
| 1.3 | <u>Packing and Packing</u> | 2 |
| 2. | <u>REFERENCED DOCUMENTS</u> | 2 |
| 2.1 | <u>General</u> | 2 |
| 2.2 | <u>Government Documents</u> | 2 |
| 2.3 | <u>Order of Precedence</u> | 2 |
| 3. | <u>DEFINITIONS</u> | 2 |
| 4. | <u>GENERAL REQUIREMENTS</u> | 3 |
| 4.1 | <u>Colors</u> | 3 |
| 4.2 | <u>Application of color coding</u> | 18 |
| 4.3 | <u>Special Coding</u> | 18 |
| 4.4 | <u>Materials</u> | 21 |
| 4.5 | <u>Data Marking</u> | 21 |
| 5. | <u>DETAIL REQUIREMENTS</u> | 21 |
| 6. | <u>NOTES</u> | 21 |
| 6.1 | <u>Intended Use</u> | 21 |
| 6.2 | <u>Acquisition requirements</u> | 21 |
| 6.3 | <u>International standardization agreement implantation</u> | 21 |
| 6.4 | <u>Tracer</u> | 23 |
| 6.5 | <u>Color Effect</u> | 23 |
| 6.6 | <u>Subject term (key word) listing</u> | 26 |
| 6.7 | <u>Changes from previous issue</u> | 27 |
| | <u>TABLE</u> | <u>PAGE</u> |
| I | <u>Ammunition Color Code and Application for Tier I</u> | 4 |
| II | <u>Ammunition Color Code for Tier II</u> | 17 |
| III | <u>Application of Color Coding for Tier II</u> | 20 |

MIL-STD-709D

1. SCOPE

1.1 Scope. This standard covers a color coding system for ammunition.

1.2 Classification. The following ammunition tiers use the color coding system:

Tier I – Used for ammunition of a caliber .50 and below with the exception of ammunition under 1.2.1.

Tier II – Used for ammunition of a caliber 20mm and above with the exception of ammunition under 1.2.2.

1.2.1 Exceptions to Tier I. This standard does not apply to the following ammunition:

- a. Blank Ammunition
- b. Proof or high pressure test ammunition
- c. Revolver ammunition
- d. Shotgun ammunition
- e. .22 caliber
- f. .30 caliber (carbine and rifle)

1.2.2 Exceptions to Tier II. This standard does not apply to the following ammunition:

- a. Blank Ammunition
- b. Cartridge cases
- c. Propelling charges for fixed, semi-fixed, separated and separate loading ammunition
- d. Commercial ammunition and explosives
- e. Sectionalized or display models
- f. Ammunition devices required to be inconspicuous when exposed to close range observation
- g. Ammunition components and demolition accessories which normally do not require color coding for identification purposes
- h. Fuzes
- i. Cartridge or propellant-actuated devices, initiators, igniters, detonators and other components of aircrew escape systems or aircraft external stores ejection systems
- j. Proof or high pressure test ammunition
- k. Inert ammunition used in drill type training or for clearing automatic weapons and for which no protective coating is required or which has a cadmium plate/chromate treatment for the protective coating
- l. War reserve and training nuclear weapons and their containers. Required marking for these items are contained in the appropriate Joint Atomic Weapons Publications
- m. Ammunition in containers adequately identified as to contents and which ammunition is not visible to the user during handling or firing operations

MIL-STD-709D

2. REFERENCED DOCUMENTS.

2.1 General. The documents listed in this section are specified in sections 3, 4, or 5 of this standard. This section does not include documents cited in other sections of this standard or recommended for additional information or as examples. While very effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements of documents cited in sections 3, 4, or 5 of this standard, whether or not they are listed.

2.2 Government documents.

2.2.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

FEDERAL STANDARDS

| | | |
|-------------------|---|--|
| FED-STD-595/11136 | - | Red, Gloss |
| FED-STD-595/12246 | - | Orange, Gloss |
| FED-STD-595/14187 | - | Green, Gloss |
| FED-STD-595/17043 | - | Misc (Black, White, Gold, Silver, Violet), Gloss |
| FED-STD-595/17100 | - | Misc (Black, White, Gold, Silver, Violet), Gloss |
| FED-STD-595/17178 | - | Misc (Black, White, Gold, Silver, Violet), Gloss |
| FED-STD-595/26493 | - | Gray, Semi-gloss |
| FED-STD-595/30117 | - | Brown, Flat |
| FED-STD-595/30140 | - | Brown, Flat |
| FED-STD-595/31136 | - | Red, Flat |
| FED-STD-595/31158 | - | Red, Flat |
| FED-STD-595/31302 | - | Red, Flat |
| FED-STD-595/32246 | - | Orange, Flat |
| FED-STD-595/33538 | - | Yellow, Flat |
| FED-STD-595/34088 | - | Green, Flat |
| FED-STD-595/34108 | - | Green, Flat |
| FED-STD-595/34138 | - | Green, Flat |
| FED-STD-595/34449 | - | Green, Flat |
| FED-STD-595/34558 | - | Green, Flat |
| FED-STD-595/35109 | - | Blue, Flat |
| FED-STD-595/35240 | - | Blue, Flat |
| FED-STD-595/36231 | - | Gray, Flat |
| FED-STD-595/37038 | - | Misc (Black, White, Gold, Silver, Violet), Flat |
| FED-STD-595/37142 | - | Misc (Black, White, Gold, |

MIL-STD-709D

FED-STD-595/37875 - Silver, Violet), Flat
Misc (Black, White, Gold,
Silver, Violet), Flat

(Copies of these documents are available online at <http://assist.daps.dla.mil/quicksearch/> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

2.3 Order of precedence. Unless otherwise noted herein or in the contract, in the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. DEFINITIONS.

3.1 The following terms and definitions apply to this standard:

3.1.1 Binary agent. Lethal agent produced by the reaction of non-lethal chemical constituents when mixed within ammunition.

3.1.2 Binary munitions. Ammunition which contains two or more chemicals that remain separated until use. The ammunition is not lethal or explosive until mixed on demand or by shock (set back or impact).

3.1.3 Improved Conventional Munition (ICM). Ammunition which embodies a unique design to control the number, size, and distribution of fragments produced when functioned.

3.1.4 Incapacitating agent. An agent that produces temporary physiological or mental effects, or both, which will render individuals incapable of concerted effort in the performance of their assigned duties.

3.1.5 Riot control agent. A chemical that produces temporary irritation or disabling effects when in contact with the eyes or when inhaled.

3.1.6 Dummy ammunition. Inert ammunition used for maintenance operations and training purposes.

3.1.7 Inert Ammunition. Ammunition void of all energetics such as propellant fill and primer.

3.1.8 Training Ammunition. Ammunition types (Ball, Tracer, Short Range, Blank Dim Tracer, Overhead Fire, Inert and Dummy) used to support training strategies.

MIL-STD-709D

4. GENERAL REQUIREMENTS.

4.1 Colors.



4.1.1 Colors of the ammunition color code and their interpretation shall be as shown in TABLE I and TABLE II. Colors used for camouflage or other purposes shall be distinctively different from those of the code, unless otherwise provided herein.

4.1.2 The colors specified herein shall match those of the corresponding numbers in FED-STD-595, as shown in TABLE I and TABLE II, except that the first digit of the number may be changed in accordance with the ammunition requirements for a gloss, semi-gloss or a lusterless finish.

4.1.3 The color Olive Drab Green, hereafter called Olive Drab, FED-STD-595/34088, shall have no color coding significance within the scope of this standard.



MIL-STD-709D

TABLE I. Ammunition Color Code and Application for Tier I

| TIER | CALIBER | COLOR | STANDARD | INTERPRETATION | TYPE | COLOR APPLICATION | | |
|------|---------|--------|-------------------|---|-------|-------------------|------------|--|
| | | | | | | Body | Projectile | Picture |
| I | 5.56mm | Silver | FED-STD-595/17178 | Identifies completely inert small caliber ammunition designed for use in activities such as assembly, testing, handling, training, etc. | Dummy | Silver | Silver |  |
| I | 5.56mm | Green | FED-STD-595/34138 | Identifies ball ammunition for combat use and training | Ball | None | Green Tip |  |



MIL-STD-709D

TABLE I. Ammunition Color Code and Application for Tier I – Continued

| TIER | CALIBER | COLOR | STANDARD | INTERPRETATION | TYPE | COLOR APPLICATION | | |
|------|---------|--------|-------------------|--|--------|-------------------|------------|--|
| | | | | | | Body | Projectile | Picture |
| I | 5.56mm | Red | FED-STD-595/11136 | Identifies tracer ammunition for combat use and training with 'trace to target' capability | Tracer | None | Red Tip |  |
| I | 5.56mm | Orange | FED-STD-595/12246 | Identifies tracer ammunition for combat use and training with 'trace to target' capability | Tracer | None | Orange Tip |  |




MIL-STD-709D

TABLE I. Ammunition Color Code and Application for Tier I – Continued

| TIER | CALIBER | COLOR | STANDARD | INTERPRETATION | TYPE | COLOR APPLICATION | | |
|------|---------|-------|---|---|----------------------|-------------------|------------|--|
| | | | | | | Body | Projectile | Picture |
| I | 5.56mm | Black | FED-STD-595/37038 | Identifies an armor piercing ammunition or indicates an armor piercing capability | Armor Piercing | None | Black Tip |  |
| I | 5.56mm | Blue | FED-STD-595/15000's FED-STD-595/25000's FED-STD-595/35000's | Identifies short range training ammunition | Short Range Training | None | Light Blue |  |




MIL-STD-709D

TABLE I. Ammunition Color Code and Application for Tier I – Continued

| TIER | CALIBER | COLOR | STANDARD | INTERPRETATION | TYPE | COLOR APPLICATION | | |
|------|---------|-----------------|--|--|-------------|-------------------|---|---|
| | | | | | | Body | Projectile | Picture |
| I | 5.56mm | Silver & Blue | natural zinc/aluminum FED-STD-595/15000's FED-STD-595/25000's FED-STD-595/35000's | Identifies close combat mission capability kit dye marking ammunition for rifles | Dye Marking | Silver | Translucent Dome with Blue Marking Compound |  |
| I | 5.56mm | Silver & Red | natural zinc/aluminum FED-STD-595/11000's FED-STD-595/21000's FED-STD-595/31000's | Identifies close combat mission capability kit dye marking ammunition for rifles | Dye Marking | Silver | Translucent Dome with Red Marking Compound |  |
| I | 5.56mm | Silver & Yellow | natural zinc/aluminum FED-STD-595/13000's FED-STD-595/23000's FED-STD-595/33000's | Identifies close combat mission capability kit dye marking ammunition for rifles | Dye Marking | Silver | Translucent Dome with Yellow Marking Compound |  |



MIL-STD-709D

TABLE I. Ammunition Color Code and Application for Tier I – Continued

| TIER | CALIBER | COLOR | STANDARD | INTERPRETATION | TYPE | COLOR APPLICATION | | |
|------|---------|-----------------|--|---|-------------|-------------------|--|---|
| | | | | | | Body | Projectile | Picture |
| I | 5.56mm | Silver & Blue | natural zinc/aluminum FED-STD-595/15000's FED-STD-595/25000's FED-STD-595/35000's | Identifies close combat mission capability kit dye marking ammunition linked for machine guns | Dye Marking | Silver | Blue Dome with Blue Marking Compound |  |
| I | 5.56mm | Silver & Red | natural zinc/aluminum FED-STD-595/11000's FED-STD-595/21000's FED-STD-595/31000's | Identifies close combat mission capability kit dye marking ammunition linked for machine guns | Dye Marking | Silver | Blue Dome with Red Marking Compound |  |
| I | 5.56mm | Silver & Yellow | natural zinc/aluminum FED-STD-595/13000's FED-STD-595/23000's FED-STD-595/33000's | Identifies close combat mission capability kit dye marking ammunition linked for machine guns | Dye Marking | Silver | Blue Dome with Yellow Marking Compound |  |



MIL-STD-709D

TABLE I. Ammunition Color Code and Application for Tier I – Continued

| TIER | CALIBER | COLOR | STANDARD | INTERPRETATION | TYPE | COLOR APPLICATION | | |
|------|---------|--------|-------------------|---|--------|-------------------|------------|--|
| | | | | | | Body | Projectile | Picture |
| I | 7.62mm | Silver | FED-STD-595/17178 | Identifies completely inert small caliber ammunition designed for use in activities such as assembly, testing, handling, training, etc. | Dummy | Silver | Silver |  |
| I | 7.62mm | Orange | FED-STD-595/12246 | Identifies tracer ammunition for combat use and training with 'trace to target' capability | Tracer | None | Orange Tip |  |



MIL-STD-709D

TABLE I. Ammunition Color Code and Application for Tier I – Continued

| TIER | CALIBER | COLOR | STANDARD | INTERPRETATION | TYPE | COLOR APPLICATION | | |
|------|---------|-------|---|---|----------------------|-------------------|------------|--|
| | | | | | | Body | Projectile | Picture |
| I | 7.62mm | Black | FED-STD-595/37038 | Identifies an armor piercing ammunition or indicates an armor piercing capability | Armor Piercing | None | Black Tip |  |
| I | 7.62mm | Blue | FED-STD-595/15000's FED-STD-595/25000's FED-STD-595/35000's | Identifies short range training ammunition | Short Range Training | None | Light Blue |  |



MIL-STD-709D

TABLE I. Ammunition Color Code and Application for Tier I – Continued

| TIER | CALIBER | COLOR | STANDARD | INTERPRETATION | TYPE | COLOR APPLICATION | | |
|------|---------|------------|--|---|-----------------------------|-------------------|---------------------------------|--|
| | | | | | | Body | Projectile | Picture |
| I | 7.62mm | Blue & Red | FED-STD-595/15000's FED-STD-595/25000's FED-STD-595/35000's FED-STD-595/11000's FED-STD-595/21000's FED-STD-595/31000's | Identifies short range training tracer ammunition | Short Range Tracer Training | None | Light Blue projectile & Red Tip |  |
| I | 7.62mm | Red | FED-STD-595/11136 | Identifies overhead fire tracer ammunition for training | Tracer Overhead | None | Red Tip |  |




MIL-STD-709D

TABLE I. Ammunition Color Code and Application for Tier I – Continued

| TIER | CALIBER | COLOR | STANDARD | INTERPRETATION | TYPE | COLOR APPLICATION | | |
|------|---------|--------|-------------------|---|------------|-------------------|------------|--|
| | | | | | | Body | Projectile | Picture |
| I | 7.62mm | Purple | FED-STD-595/37142 | Identifies dim tracer ammunition for combat use and training with 'trace to target' capability when night vision is used | Dim Tracer | None | Purple Tip |  |
| I | 9mm | Silver | FED-STD-595/17178 | Identifies completely inert small caliber ammunition designed for use in activities such as assembly, testing, handling, training, etc. | Dummy | Silver | Silver |  |



MIL-STD-709D

TABLE I. Ammunition Color Code and Application for Tier I – Continued

| TIER | CALIBER | COLOR | STANDARD | INTERPRETATION | TYPE | COLOR APPLICATION | | |
|------|---------|---------------|--|---|-----------------|-------------------|---|---|
| | | | | | | Body | Projectile | Picture |
| I | 9mm | Blue & Red | FED-STD-595/35240 FED-STD-595/31302 | Identifies practice tracer ammunition used for training of shoulder fired rocket launcher | Practice Tracer | None | Blue projectile & Red Tip |  |
| I | 9mm | Silver & Blue | natural zinc/aluminum FED-STD-595/15000's FED-STD-595/25000's FED-STD-595/35000's | Identifies close combat mission capability kit dye marking ammunition | Dye Marking | Silver | Translucent Dome with Blue Marking Compound |  |
| I | 9mm | Silver & Red | natural zinc/aluminum FED-STD-595/11000's FED-STD-595/21000's FED-STD-595/31000's | Identifies close combat mission capability kit dye marking ammunition | Dye Marking | Silver | Translucent Dome with Red Marking Compound |  |



MIL-STD-709D

TABLE I. Ammunition Color Code and Application for Tier I – Continued

| TIER | CALIBER | COLOR | STANDARD | INTERPRETATION | TYPE | COLOR APPLICATION | | |
|------|---------|-----------------|--|---|-------------|-------------------|---|--|
| | | | | | | Body | Projectile | Picture |
| I | 9mm | Silver & Yellow | natural zinc/aluminum FED-STD-595/13000's FED-STD-595/23000's FED-STD-595/33000's | Identifies close combat mission capability kit dye marking ammunition | Dye Marking | Silver | Translucent Dome with Yellow Marking Compound |  |
| I | .50 cal | Silver | FED-STD-595/17178 | Identifies completely inert small caliber ammunition designed for use in activities such as assembly, testing, handling, training, etc. | Dummy | Silver | Silver |  |



MIL-STD-709D

TABLE I. Ammunition Color Code and Application for Tier I – Continued

| TIER | CALIBER | COLOR | STANDARD | INTERPRETATION | TYPE | COLOR APPLICATION | | |
|------|---------|--------------|--|---|----------------------------------|-------------------|------------------|--|
| | | | | | | Body | Projectile | Picture |
| I | .50 cal | Gray & Red | FED-STD-595/26493 FED-STD-595/11136 | Identifies an armor piercing incendiary tracer ammunition or indicates an armor piercing incendiary tracer capability | Armor Piercing Incendiary Tracer | None | Gray & Red Tip |  |
| I | .50 cal | Gray & Green | FED-STD-595/26493 FED-STD-595/14187 | Identifies an armor piercing incendiary ammunition or indicates an armor piercing incendiary capability | Armor Piercing Incendiary | None | Gray & Green Tip |  |



MIL-STD-709D

TABLE I. Ammunition Color Code and Application for Tier I – Continued

| TIER | CALIBER | COLOR | STANDARD | INTERPRETATION | TYPE | COLOR APPLICATION | | |
|------|---------|---------------|--|---|--------------------------------------|-------------------|-------------------|--|
| | | | | | | Body | Projectile | Picture |
| I | .50 cal | Gray & Purple | FED-STD-595/26493 FED-STD-595/37142 | Identifies an armor piercing incendiary dim tracer ammunition or indicates an armor piercing incendiary dim tracer capability | Armor Piercing Incendiary Dim Tracer | None | Gray & Purple Tip |  |
| I | .50 cal | Blue | FED-STD-595/35109 | Identifies short range training ammunition | Short Range Tracer Training | Blue | Light Blue |  |


MIL-STD-709D

TABLE I. Ammunition Color Code and Application for Tier I – Continued

| TIER | CALIBER | COLOR | STANDARD | INTERPRETATION | TYPE | COLOR APPLICATION | | |
|------|---------|---------------------------------|--|--|------------------------------|-------------------|---------------------------------|--|
| | | | | | | Body | Projectile | Picture |
| I | .50 cal | Blue & Red | FED-STD-595/35109 FED-STD-595/31158 | Identifies short range training tracer ammunition | Short Range Tracer Training | Blue | Light Blue projectile & Red Tip |  |
| I | .50 cal | Amber Sabot & Silver Penetrator | ULTEM1000 sabot plastic & natural tungsten alloy | Identifies sabot light armor penetrator ammunition | Saboted Light Armor Piercing | None | Amber Sabot & Silver Penetrator |  |

MIL-STD-709D

TABLE I. Ammunition Color Code and Application for Tier I – Continued

| TIER | CALIBER | COLOR | STANDARD | INTERPRETATION | TYPE | COLOR APPLICATION | | |
|------|---------|-------------------------------------|---|--|---|-------------------|-------------------------------------|---|
| | | | | | | Body | Projectile | Picture |
| I | .50 cal | Red Sabot & Silver Penetrator | ULTEM1000-6015 sabot plastic & natural tungsten alloy | Identifies tracer saboted light armor penetrator ammunition | Saboted Light Armor Piercing Tracer | None | Red Sabot & Silver Penetrator |  |

MIL-STD-709D

TABLE II. Ammunition Color Code for Tier II

| TIER | COLOR <u>5/</u> | STANDARD | INTERPRETATION |
|-------------|--------------------------|--|--|
| II | Yellow | FED-STD-595/33538 | Identifies High Explosive (HE) ammunition or indicates the presence of a high explosive |
| II | Brown | FED-STD-595/30117 or FED-STD-595/30140 | Identifies low explosive items or components or indicates the presence of a low explosive |
| II | Gray <u>1/ 6/</u> | FED-STD-595/36231 | Identifies chemical ammunition containing a toxic chemical, incapacitating or riot control agent |
| II | Dark Red | FED-STD-595/31136 | Identifies a riot control agent filler |
| II | Dark Green <u>1/</u> | FED-STD-595/34108 | Identifies a toxic chemical agent filler |
| II | Violet | FED-STD-595/17100 | Identifies an incapacitating agent filler |
| II | Black <u>1/ 3/</u> | FED-STD-595/37038 | Identifies an armor defeating ammunition or indicates an armor defeating capability |
| II | Silver / Aluminum | FED-STD-595/17178 | Identifies countermeasure ammunition (e.g. radar echo, leaflets) |
| II | Light Green <u>1/</u> | FED-STD-595/34558 or FED-STD-595/34449 | Identifies screening or marking smoke ammunition |
| II | Light Red | FED-STD-595/31158 | Identifies incendiary ammunition or indicates the presence of highly flammable material (liquids, jellies, solids), designed to produce damage by fire |
| II | White <u>1/ 2/ 3/</u> | FED-STD-595/37875 | Identifies illuminating ammunition or ammunition designed to produce a colored light |

MIL-STD-709D

TABLE II. Ammunition Color Code for Tier II - Continued

| TIER | COLOR <u>4/ 5/</u> | STANDARD | INTERPRETATION |
|-------------|---------------------------|-------------------|---|
| II | White <u>1/ 2/ 3/</u> | FED-STD-595/37875 | Identifies illuminating ammunition or ammunition designed to produce a colored light |
| II | Light Blue | FED-STD-595/35109 | Identifies practice ammunition |
| II | Orange | FED-STD-595/32246 | May be used to identify ammunition used for tracking and recovery in tests or in training operations (e.g. underwater mines and torpedoes) |
| II | Bronze, Gold, Brass | FED-STD-595/17043 | Identifies inert ammunition designed for use in activities such as assembly, testing, handling, drills, etc., and not designed to be delivered in a delivery system |

Notes:

1/ The following colors when applied as stated have no color coding significance: Colors GRAY, BLACK, GREEN or WHITE on underwater ammunition.

2/ The following colors when applied as stated have no color coding significance: Colors WHITE on guided missiles, dispensers and rocket launchers.

3/ The following colors when applied as stated have no color coding significance: Colors BLACK or WHITE when used for lettering or special marking.

4/ The following colors when applied as stated have no color coding significance: Colors specifically applied to identify the color produced by smoke ammunition or pyrotechnics.

5/ The following colors when applied as stated have no color coding significance: Unpainted or natural color ammunition.

6/ The following colors when applied as stated have no color coding significance: Color GRAY on air launched missiles.

MIL-STD-709D

4.2 Application of color coding.

4.2.1 Color coding of new production and of existing stocks, when repainting, remarking or both repainting and remarking are required for maintenance purposes, shall be in accordance with applicable ammunition drawings. These drawings, in turn, shall incorporate the color coding requirements of this standard. Repainting of current stocks merely to comply with this standard is not required.

4.2.2 Color coding shall be applied to ammunition in the following manners, except as provided in 4.3:

- a. Preferably as the color of the normal protective coating (overall body color), or,
- b. As the color of the main identification markings, or,
- c. In the form of an appropriately colored circumferential band, approximately equal in width to one half the caliber or diameter of the ammunition except the width need not exceed two inches, or,
- d. By means of discs or squares, of the appropriate color, which shall be as large as possible consistent with the use and shape of the ammunition item.

4.2.2.1 A combination of manners of application may be used when TABLE I and TABLE II indicates a need for more than one color, for example, a high explosive projectile having an armor defeating capability.

4.3. Special Coding.

4.3.1 Chemical ammunition containing toxic chemical, incapacitating, or riot control chemical agents shall be colored GRAY (FED-STD-595/36231) as the normal protective coating (overall body color). An appropriate colored band around the circumference of the ammunition shall denote the type (class) of agent (i.e., toxic chemical, incapacitating or riot control). In addition, the main identification details, including the name or chemical agent symbol shall be marked in the same color as the band denoting the agent. Where practical, in addition to the stencil, the chemical agent symbol shall be metal stamped (engraved) in ½-inch or larger letters in the body of the munition. Camouflage paint shall never be use for ammunition containing toxic chemical, riot control, or incapacitating agents. See TABLE III.

MIL-STD-709D

TABLE III. Application of Color Coding for Tier II

| TIER | AMMUNITION | COLORS | | |
|------|---|------------------------------|--|---|
| | | Body | Marking <u>1/</u> | Band |
| II | High Explosive, (HE), except 20MM | Olive Drab | Yellow | <u>2/ 3/ 4/ 5/</u> |
| II | High Explosive, (HE), 20MM | Yellow | Black | None |
| II | Explosive Binary Munitions | Olive Drab | Yellow | Broken Yellow <u>6/</u> |
| II | High Explosive Plastic (HEP) | Olive Drab | Yellow | Black |
| II | High Explosive Anti-tank (HEAT) | Black | Yellow | None |
| II | Antipersonnel and anti-tank mines | Olive Drab | Yellow | <u>3/</u> |
| II | Incendiary | Light Red | Black | None |
| II | High Explosive Incendiary (HEI) | Yellow | Black | Light Red |
| II | Armor Piercing Incendiary (API) | Black | White | Light Red |
| II | Armor Piercing (AP) (a) with bursting charge (b) without bursting charge | Black Black | Yellow White | None |
| II | Canister | Olive Drab | White | None |
| II | Flechette loaded | Olive Drab | White | <u>7/ 8/</u> |
| II | Illuminating <u>9/</u> (a) separate loading (b) fixed or semi-fixed | Olive Drab White | White Black | White None |
| II | Practice (a) with low explosive to indicate functioning (b) with high explosive to indicate functioning (c) without explosive to indicate functioning | Light Blue | White | Brown Yellow None |
| II | Screening or Marking Smoke Ammunition (a) Filled with other than white (b) Filled with white phosphorus | Light Green Light Green | Black Light Red | None <u>10/ 11/</u> |
| II | Inert ammunition not designed to be delivered in a delivery system | Bronze | Black | None |
| II | Chemical (a) Filled with a riot control agent (b) Filled with an incapacitating agent (c) Filled with a toxic chemical agent other than binary gents. (d) Filled with a toxic chemical binary nerve | Gray Gray Gray Gray | Dark Red Violet Dark Green Dark Green | 1 Dark Red <u>10/</u> 1 Violet <u>10/</u> 1 Dark Green <u>10/</u> 1 Broken Dark Green <u>10/ 12/ 13/</u> |

MIL-STD-709D

TABLE III. Application of Color Coding for Tier II - Continued

Notes:

- 1/ The letters and figures normally used for the main identification details.
- 2/ A circumferential band of yellow diamond shaped figures is applied to semi-fixed and separate loading Improved Conventional Munitions.
- 3/ A circumferential band of yellow triangular shaped figures is applied to mass scatterable mine loaded semi-fixed and separate loading ammunition.
- 4/ Separate loading ammunition for shipboard use shall have a yellow band in addition to the yellow marking.
- 5/ Bombs shall have one yellow band except thermally protected bombs shall have two yellow bands in addition to the yellow markings.
- 6/ A circumferential broken yellow band, consisting of one-half inch segments separated by one-half inch gaps, is applied to explosive binary munitions.
- 7/ A circumferential band of white diamond shaped figures is applied to ammunition containing flechettes.
- 8/ Yellow band is applied when the ammunition contains explosive designed to fracture the projectile.
- 9/ Both (a) and (b) color applications are standard. However, for land ammunition use, separate loading ammunition shall be colored olive drab as the overall body color with a white band and the main identification details marked white, and fixed and semi-fixed ammunition shall be colored white as the overall body color with the main identification details in black.
- 10/ Yellow band is applied when a high explosive burster is present.
- 11/ Separate loading ammunition for shipboard use shall have black markings and a light red band.
- 12/ Toxic chemical agent ammunition containing a Binary nerve agent filling shall be indicated by a broken dark green band having one-half inch segments separated by one-half inch spaces.
- 13/ Brown band is applied when a low explosive (e.g. expulsion charge) is present.

4.3.2 Missiles, missile components and tactical submunitions, which are overpacked in color coded launchers, dispensers, warheads, projectiles, or rocket motors need not be color coded. However, when color coding is applied, the color shall comply with this standard.

MIL-STD-709D

4.3.3 Semi-fixed and separate loading artillery ammunition containing mass scatterable mines shall be marked with a circumferential band of triangular shaped figures to indicate both an HE use and mass scatterable mine loaded ammunition. See TABLE III.

4.4 Materials. Color coding materials (e.g., paints, enamels, lacquers, marking inks, decals, or strippable tapes) shall be as required by the applicable ammunition drawings and specifications.

4.5 Data Marking. Data markings not otherwise specified herein, such as ammunition lot number and national stock number (NSN), will be in the same color as other markings or in black or white.

4.6 Packaging and Packing. Normally packaging and packing of ammunition do not require color coding. Color coding is required for packaging and packing of chemical ammunition, both lethal and toxic; the colors shall be in accordance with this standard.

5. DETAILED REQUIREMENTS.

5.1 Tier I – 5.56mm, 7.62mm, and .50 caliber.

5.1.1 Applications of color for specified ammunition are as shown in TABLE I. The details of TABLE I shall be complied with.

5.2 Tier II – Caliber 20mm and above.

5.2.1 Applications of color, consistent with TABLE II, for specified ammunition are as shown in TABLE III. The details of TABLE III shall be complied with.

6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. Provide color coding system for combat and training ammunition, except as noted in 1.2.1 and 1.2.2.

6.2 Acquisition requirements. Acquisition documents should specify the title, number, and date of this standard.

6.3 International standardization agreement implementation. The standard implements NATO STANAG 2953 – Identification of Ammunition – AOP-2 and NATO STANAG 2442 – Ammunition Marking for Experimental and Test Ammunition. When changes to, revision, or cancellation of this standard are proposed, the preparing activity must coordinate the action with the U.S. National Point of Contact for the international

MIL-STD-709D

standardization agreement, as identified in the ASSIST database at <http://assist.daps.dla.mil>.

6.4 Tracer. The presence of a tracer should be indicated by a hyphenated letter T in the nomenclature, e.g., HE-T. That letter may also be placed elsewhere on the ammunition singly or as a circumferential band of T's.

6.5 Color Effect. The color or colors produced by ammunition should be indicated by symbol, when required for tactical reasons.

6.5.1 The color effect(s) should be indicated by the symbol "C" repeated at least three (3) times in the color approximating that of the effect produced. When so used, these colors should have no other coding significance.

6.5.2 Items ejecting more than one star should be marked by parallel rows of the symbol "C" one row for each star and each row in the appropriate star color.

6.5.3 Items ejecting stars where the quantity is of no significance should be marked with symbol "MULTI".

6.6 Subject term (key word) listing.

Camouflage
Coating, protective
Finish
Gloss
Identification
Lusterless
Marking
Semi-gloss

6.7 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Custodians:
Army – AR
Navy – OS
Air Force - 02

Preparing activity:
Army - AR
(Project 1395-2009-004)

Review activities:
Army – EA, MI, MR
Navy – AS, MC, NP
Air Force – 70, 99

Civil agencies:
GSA – FAS

MIL-STD-709D

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://assist.daps.dla.mil>.