MATERIALS FOR SAFETY WEARING APPAREL
(Second Edition)

COMMERCIAL STANDARD CS129–47
Effective Date for New Production from July 21, 1947

A RECORDED VOLUNTARY STANDARD OF THE TRADE

UNITED STATES DEPARTMENT OF COMMERCE
W. AVERELL HARRIMAN, Secretary

COMMERCIAL STANDARDS

Commercial Standards are voluntary standards of the trade developed through concerted action of those directly concerned, and issued by the United States Department of Commerce upon written evidence of their acceptability to the trade. They are initiated by written request from a responsible element of business to the Division of Trade Standards of the National Bureau of Standards. The Division of Trade Standards of all concerned acts as a coordinating and fact-finding agency in ascertaining the desires.

The Federal Government exercises no regulatory authority in the enforcement of Commercial Standards. In accepting a Commercial Standard, the producer, distributor, or user says in effect that he considers it a useful standard of practice, and plans to utilize it as far as practicable in his business, reserving the right to depart from the standard so long as no deception results from such departure. When reference to a Commercial Standard is made in contracts, labels, invoices, or advertising literature, however, the provisions of the standard are enforceable through usual legal channels as a part of the sales contract.

Organized in 1927, the Division of Trade Standards has assisted many industries in the development of Commercial Standards for a wide variety of commodities. A list of previously established Commercial Standards appear herein.

COMMERCIAL STANDARD FOR MATERIALS FOR SAFETY WEARING APPAREL
(Second Edition)

On April 30, 1943, a Recommended Commercial Standard for Materials for Safety Wearing Apparel was presented to those concerned for written acceptance. It was subsequently accepted by the trade, and promulgated by the United States Department of Commerce as Commercial Standard CS129-46.

On March 25, 1947, a revision recommended by the Standing Committee was circulated to producers, distributors, and users for written acceptance. Those concerned have since accepted and approved the Commercial Standard as shown herein.

Project Manager: L. R. Gilbert, Division of Trade Standards
National Bureau of Standards

Technical Advisers: Stewart J. Owen, Jr., Division of Codes and Specifications, National Bureau of Standards
W. D. Appel, Division of Organic and Fibrous Materials, National Bureau of Standards
1. The purpose of this commercial standard is to (a) provide protection to the wearer of safety wearing apparel through the establishment of standard minimum quality requirements and methods of test for the material used in the manufacture of such apparel; (b) serve as a basis for fair competition between manufacturers; and (c) provide a foundation for guaranteeing the quality of the materials used in the manufacture of this product.

2. This commercial standard covers minimum quality requirements for the material used in the manufacture of safety wearing apparel, including:
   (a) Asbestos fabrics.
   (b) Cotton fabrics, flame-resistant.
   (c) Leather.
   (d) Woolen fabrics.
   (e) Accessory materials.

3. This standard also covers methods of test and methods of labeling to certify or guarantee quality.

4. Asbestos fabrics.—These fabrics used in the general line of safety wearing apparel, including all kinds of hand protectors (including gloves and mittens, lined or unlined, plain or reinforced); all kinds of arm and leg protectors (including sleeves, leggings, spats, etc.); and all kinds of body protectors (including suits, pants, coats, capes, bibs, etc.), shall meet the following requirements:
   (a) *Grade of yarn.*—Underwriters' grade asbestos content 80 percent minimum when tested according to methods of test approved by the National Bureau of Standards. (A. S. T. M. designation D299-42).
   (b) *Weave and size of yarn.*—Herringbone 2 ply 14 cut; or basket (plain) weave 2 ply 10 cut.
   (c) *Minimum weight.*—2½ pounds per square yard.
   (d) *Breaking strength.*—The fabric shall have a minimum breaking strength in conformity with table 1, when tested by the grab method in accordance with procedure approved by the National Bureau of Standards. (Commercial Standard CS59-44).
Table 1.—Breaking strength asbestos fabrics

<table>
<thead>
<tr>
<th>Weave</th>
<th>Minimum breaking strength</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Warp</td>
</tr>
<tr>
<td>Herringbone</td>
<td>.165</td>
</tr>
<tr>
<td>Basket (plain)</td>
<td>.145</td>
</tr>
</tbody>
</table>

COTTON FABRICS, FLAME-RESISTANT

5. Heavy duty.—Flame-resistant cotton fabrics used in those items of safety clothing, including coats, pants, aprons, leggings, and heavy-duty sleeves, which are called upon to perform heavy duty service, shall have minimum quality base cloth as follows:

(a) Fabric.—Gray cotton duck, 12 ounces per linear yard in 29-inch widths (14.90 oz/sq yd).

(b) Weave.—Plain, two warp threads woven as one with single filling.

6. Light duty.—For those items of safety clothing such as coats, pants, sleeves, jumper suits and linings, which perform lighter hazards service, the minimum quality base cloth shall be:

(a) Fabric.—Gray cotton duck or suiting 8 ounces to 10 ounces per linear yard in 29-inch widths, (9.93 oz to 12.41 oz/sq yd).

(b) Weave.—Plain, with two warp threads woven as one, with single filling.

7. Construction.—The construction and strength requirements for the fabrics used in both the heavy duty and lighter duty garments shall be in accordance with table 2, when tested as indicated in Federal Specification CCC-T-191a. The breaking strength of the treated fabrics when tested by the grab method shall be not less than that required for the untreated cloth.

Table 2.—Construction and requirements of cotton fabrics

<table>
<thead>
<tr>
<th>Type of fabric</th>
<th>Untreated (gray)</th>
<th>Treated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nominal weight</td>
<td>Minimum breaking strength 1 by 1 by 3 grab</td>
</tr>
<tr>
<td></td>
<td>Ounces per linear yard</td>
<td>Ounces per square yard</td>
</tr>
<tr>
<td></td>
<td>29 inches wide</td>
<td>1 by 1 by 3 grab</td>
</tr>
<tr>
<td>Duck or suiting</td>
<td>8</td>
<td>9.93</td>
</tr>
<tr>
<td>Duck or suiting</td>
<td>10</td>
<td>12.41</td>
</tr>
<tr>
<td>Duck</td>
<td>12</td>
<td>14.90</td>
</tr>
</tbody>
</table>

^ Two threads woven as one.

8. Treatment.—The cotton fabrics indicated in table 2 shall be uniformly treated with a suitable nonpoisonous compound to produce a flame-resistant nonirritating cloth, no specimen of which when tested by the methods of test indicated in paragraph 16 shall continue flaming for
Materials for Safety Wearing Apparel

more than 2 seconds after the burner flame is withdrawn. The average length of char of the specimens shall not be more than 3½ inches, and the maximum length of char for any one of the specimens shall not be more than 4½ inches.

LEATHER

9. Tannage.—All leather used in the manufacture of safety-wearing apparel shall be thoroughly chrome tanned, and shall contain not less than 5 percent nor more than 13 percent grease; and not less than 3 percent nor more than 5 percent chromic oxide when tested as indicated in paragraph 17.

10. Grading tolerance.—The leather shall be soft and pliable. It shall be free from skive cuts, and open grub holes, although well healed grub scars or brand marks are permitted. The use of shelly or middle splits is permitted only in the manufacture of gauntlets or cuffs.

WOOLEN FABRICS

11. Weight.—Woolen fabrics used in the manufacture of safety wearing apparel shall have a minimum weight of 20 ounces per linear yard in 54-inch widths (13.33 oz/sqyd).

12. Fiber content.—Woolen fabrics used in the manufacture of safety wearing apparel shall contain no fiber other than wool, reprocessed wool, reused wool, or a combination thereof, as described in the “Wool Products Labeling Act of 1939” (Public No. 850—76th Congress).

ACCESSORY MATERIALS

13. Metal fasteners.—The metal fasteners used in the manufacture of safety wearing apparel shall be of such design as to permit ease of adjustment and removal of clothing, and shall be fully protected from corrosion by a tinning, japanning, or plating process when tested according to the method indicated in paragraph 18a.

13a. Buckles.—It is recommended that buckles, slides, loops, fasteners, hooks and eyes, eyelets and grommets shall be of sufficiently strong construction to meet the maximum safety requirements.

13b. Buttons, snap.—Brass spring type snap buttons with wide flanged studs of large size are recommended as the minimum standard for heavy-duty safety wearing apparel. Ball-and-socket types of snap buttons are acceptable and recommended for service where the sturdier grip of the spring type is unnecessary.

13c. Rivets.—Tubular type rivets of a grade that will make a smooth clinch or a capped split type rivet are recommended as the minimum standard for safety wearing apparel.

14. Thread.—In the sewing necessary to the manufacture of safety wearing apparel, the lockstitch shall be used with at least four-cord unbleached-cotton thread (table 1, ticket No. 16, Federal Specification for Thread: Cotton V–T–276b), except that asbestos thread of suitable strength may be used for sewing asbestos cloth.

14a. Chain stitching and a lighter weight thread than that indicated in paragraph 14 may be used for linings.

METHODS OF TEST

COTTON FABRICS, FLAME-RESISTANT

15. Specimens. For the tests on flame-resistant cotton fabrics, 10 specimens 2 by 12½ inches shall be cut with their long dimensions in
the direction of the warp and 10 in the direction of the filling. Each lot of 10 shall be cut from at least 4 places in the sample.


16a. The specimens shall be suspended vertically from a clamp covering the upper ½ inch of the length. To protect the specimen from drafts, the apparatus shall be enclosed in a sheet-metal shield 12 inches wide, 12 inches deep and 30 inches high, open at the top, and provided with a vertical sliding glass front. Sufficient room shall be left at the bottom of the front to allow manipulation of the gas burner used in igniting the specimen.

16b. The specimen shall be suspended with its lower end three-fourths of an inch above the top of a Bunsen or Tirrill gas burner, having a tube of three-eighths inch inside diameter, and with the air supply completely shut off, adjusted to give a luminous flame 1½ inches long. The flame is applied vertically near the middle of the width of the lower end of the specimen for 12 seconds, then withdrawn, and the duration of flaming in the specimen noted.

16c. The length of char shall then be determined. It is the distance from the end of the specimen which was exposed to the fire, to the end of the tear made lengthwise of the specimen through the center of the charred area in the following way. Hooks are inserted in the specimen, one on each side of the charred area one-fourth inch in from the adjacent outside edge. The weight specified in table 3 is attached to one hook and applied to the specimen gently, without impact, by raising the other hook. The specimen will tear through the charred-area until fabric strong enough to carry the load is reached.

**Table 3.—Tearing weight of charred duck**

<table>
<thead>
<tr>
<th>Weight per square yard of duck before treating</th>
<th>Tearing weight for determining charred length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 15 ounces.</td>
<td>Pound</td>
</tr>
<tr>
<td>15.01 to 23 ounces.</td>
<td>0.5</td>
</tr>
</tbody>
</table>

**LEATHER**

17. **Grease and Chromic Oxide.** In the event of disagreement between buyer and seller as to the methods of test to determine the amount of grease and chromic oxide in leather used in the manufacture of safety wearing apparel, the test methods approved by the National Bureau of Standards shall be used. (Federal Specification KK–A–606).

**ACCESSORY MATERIALS**

18. **Metal Fasteners.**

18a. **Corrosion test.** In the event of disagreement as to the method of test to determine the degree to which metal fasteners used in the manufacture of safety wearing apparel will withstand corrosion, the test methods approved by the National Bureau of Standards shall be used (Commercial Standard CS85–41).
LABELING

19. When safety wearing apparel is guaranteed to comply with the commercial standard, it is recommended that the following form be used for guarantee on invoices and sales contracts:

The........................................ Company declares that the materials in the wearing apparel covered by this invoice (or contract) comply with all the applicable requirements of Commercial Standard CS129-47, for Materials for Safety Wearing Apparel, as issued by the National Bureau of Standards, United States Department of Commerce.

19a. It is also recommended that the minimum weight, and the type of weave (whether herringbone or basket-plain) of the asbestos fabric, and the type of flame-proof fabric (whether heavy or light duty), be indicated in catalogs and price lists and on invoices and sales contracts.

EFFECTIVE DATE

20. The standard is effective for new production from July 21, 1947.

STANDING COMMITTEE

21. The following individuals comprise the membership of the Standing Committee, which is to review, prior to circulation for acceptance, revisions proposed to keep the standard abreast of progress. Comment concerning the standard and suggestions for revision may be addressed to any member of the committee or to the Division of Trade Standards, which acts as secretary for the committee.

E. L. WHEELER, Chairman

E. L. WHEELER, F. H. Wheeler Manufacturing Co., 224 West Huron Street, Chicago, Ill.

G. H. SCHAUWEKER, American Optical Co., 1939 Thomas Street, South Bridge, Mass.

DON KIMBALL, The Kimball Safety Products Co., 7314 Wade Park Avenue, Cleveland, Ohio.

I. W. MILLARD, Industrial Gloves Co., 777 Garfield Boulevard, Danville, Ill.

J. T. GRIFFITS, Southern Asbestos Co., Charlotte, N. C.


ALEXANDER MORRISON, American Woolen Co., Inc., Lawrence, Mass.


H. S. SIMPSON, Caterpillar Tractor Co., Peoria, Ill.

MELBOURNE F. SNNARD, Safety Branch, Office of Industrial Relations, Navy Department, Washington 25, D. C.

ROBERT W. WEBSTER, Alternate, Research and Standards Branch, Bureau of Ships, Navy Department, Washington 25, D. C.

HISTORY OF PROJECT

22. On September 22, 1941, the Industrial Safety Equipment Association voted to request the cooperation of the National Bureau of Standards in establishing a commercial standard for materials for safety wearing apparel.

23. Following receipt of this request, copies of a proposed commercial standard were circulated to selected representatives of producer, distributor, and user organizations for advance comment.

24. With the unqualified endorsement of a number of interested organizations, the recommended commercial standard for materials for safety wearing apparel was submitted to the entire trade for written acceptance on April 30, 1943. Having received acceptances in writing estimated to
represent a satisfactory majority, announcement was issued on March 5, 1946, that the standard would become effective for new production from May 6, 1946.

**FIRST REVISION**

25. In February 1947, the Standing Committee recommended that the standard be revised in order to raise the quality of the asbestos from Commercial to Underwriters' grade, and increase the minimum breaking strength.

26. Accordingly, a revision of the standard was developed and circulated to those concerned for written acceptance. This was done on March 25, 1947. Having received acceptances estimated to represent a satisfactory majority of production, and in the absence of valid opposition, the establishment of the standard was announced on May 20, 1947.
ACCEPTANCE OF COMMERCIAL STANDARD

If acceptance has not previously been filed, this sheet properly filled in, signed, and returned will provide for the recording of your organization as an acceptor of this commercial standard.

Date...............................................................  

Division of Trade Standards,  
National Bureau of Standards,  
Washington 25, D. C.  

Gentlemen:  
We believe that the Commercial Standard CS129-47 constitutes a useful standard of practice, and we individually plan to utilize it as far as practicable in the  
Production\(^1\)  
distribution\(^1\)  
purchase\(^1\)  
testing\(^1\)  
of materials for safety wearing apparel.  

We reserve the right to depart from it as we deem advisable.  

We understand, of course, that only those articles which actually comply with the standard in all respects can be identified or labeled as conforming thereto.  

Signature of authorized officer............................................................  
(In ink)  

(Kindly typewrite or print the following lines)  

Name and title of above officer............................................................  

Organization...............................................................  
(Fill in exactly as it should be listed)  

Street address...............................................................  

City, Zone, and State...............................................................  

\(^1\)Underscore which one. Please see that separate acceptances are filed for all subsidiary companies and affiliates which should be listed separately as acceptors. In the case of related interests, trade associations, trade papers, etc., desiring to record their general support, the words "General Support" should be added after the signature.
TO THE ACCEPTOR

The following statements answer the usual questions arising in connection with the acceptance and its significance:

1. Enforcement.—Commercial standards are commodity specifications voluntarily established by mutual consent of those concerned. They present a common basis of understanding between the producer, distributor, and consumer and should not be confused with any plan of governmental regulation or control. The United States Department of Commerce has no regulatory power in the enforcement of their provisions, but since they represent the will of the interested groups as a whole, their provisions through usage soon become established as trade customs, and are made effective through incorporation into sales contracts by means of labels, invoices, and the like.

2. The acceptor’s responsibility.—The purpose of commercial standards is to establish for specific commodities, nationally recognized grades or consumer criteria and the benefits therefrom will be measurable in direct proportion to their general recognition and actual use. Instances will occur when it may be necessary to deviate from the standard and the signing of an acceptance does not preclude such departures; however, such signature indicates an intention to follow the commercial standard where practicable, in the production, distribution, or consumption of the article in question.

3. The Department’s responsibility.—The major function performed by the Department of Commerce in the voluntary establishment of commercial standards on a Nation-wide basis is fourfold: first, to act as an unbiased coordinator to bring all interested parties together for the mutually satisfactory adjustment of trade standards; second, to supply such assistance and advice as past experience with similar programs may suggest; third, to canvass and record the extent of acceptances and adherence to the standard on the part of producers, distributors, and users; and fourth, after acceptance, to publish and promulgate the standard for the information and guidance of buyers and sellers of the commodity.

4. Announcement and promulgation.—When the standard has been endorsed by a satisfactory majority of production or consumption in the absence of active valid opposition, the success of the project is announced. If, however, in the opinion of the Standing Committee or the Department of Commerce, the support of any standard is inadequate, the right is reserved to withhold promulgation and publication.
ACCEPTORS

27. The organizations listed below have individually accepted this standard for use as far as practicable in the production, distribution, testing or purchase of materials for safety wearing apparel. In accepting the standard, they reserved the right to depart therefrom as they individually deem advisable. It is expected that articles which actually comply with the requirements of this standard in all respects will be regularly identified or labeled as conforming thereto, and that purchasers will require such specific evidence of conformity.

ASSOCIATIONS
(General Support)
American Foundrymens Association, Chicago, Ill.
Cotton Textile Institute, Inc., The, New York, N.Y.
Dairymen's League Co-Operative Association, Inc., New York, N.Y.
Industrial Safety Equipment Association, New York, N.Y.
National Association of Leather Glove Manufacturers, New York, N.Y.
National Association of Wool Manufacturers, New York, N.Y.
Webbing Manufacturers Institute, New London, Conn.

FIRMS
Aball Asbestos Co., Newark, N.J.
Acme Safety Products Co., Akron, Ohio.
Alabama By Products Co., Birmingham, Ala.
Alabama Dry Dock Shipbuilding Co., Mobile, Ala.
Allied Weld-Craft, Inc., Indianapolis, Ind.
American LaFrance-Feoamite Corp., Elmira, N.Y.
American Rolling Mill Co., The, Middletown, Ohio.
American Woolen Co., New York, N.Y.
Arkansas Natural Gas Corp., Shreveport, La.
Bakelite Corp., The, Watertown, N.Y.
Bakelite Corp., Bound Brook, N.J.
Ball Brothers Co., Muncie, Ind.
Balmar Corp., The, Baltimore, Md.
Banner Iron Works, St. Louis, Mo.
Bartlett & Snow Co., The, C. O., Cleveland, Ohio.
Bausch & Lomb Optical Co., Rochester, N.Y.
Beach Manufacturing Co., Charlotte, Mich.
Beatrice Co., Ltd., J. B., Shreveport, La.
Bel Co., M. A., St. Louis, Mo.
Bethlehem Steel Co., Bethlehem, Pa.
Bower-Campbell Co., The, Detroit, Mich.
Bullard Co., The, Bridgeport, Conn.

Burke & Co., Inc., J. Franklin, New York, N. Y.
Carey Machinery & Supply Co., Baltimore, Md.
Carey Manufacturing Co., The, Lockland, Cincinnati, Ohio.
Carolina Asbestos Co., Davidson, N.C.
Pinal Corp. of America, Fords, N. J.
Caterpillar Tractor Co., E. Peoria, Ill.
Charlottesville Woolen Mills, Charlottesville, Va.
Chicago Brick Co., Chicago, Ill.
Chicago Eye Shield Co., Chicago, Ill.
Chicago Hardware Foundry, N. Chicago, Ill.
Cleveland Cliffs Iron Co., Ishpeming, Mich.
Walah-Weidner Division, Chattanooga, Tenn.
Consolidated Iron Steel Manufacturing Co., The, Cleveland, Ohio.
Continental Steel Corp., Kokomo, Ind.
Davenport Boiler Corp., Davenport, Iowa.
Detroit Testing Laboratory, The, Detroit, Mich.
Dollin Corp., Irvington, N. J.
Donald Sales & Manufacturing Co., Milwaukee, Wis.
Douglas Aircraft Co., Inc., Santa Monica, Calif.
Eastman Kodak Co., Rochester, N. Y.
Eclipse Glass Co., Thomaston, Conn.
Edge Moor Iron Works, Inc., Edge Moor, Del.
Electro Refractories & Alloys Corp., Lackawanna, N. Y.
Enesco Derrick & Equipment Co., Los Angeles, Calif. (general support).
Enterprise Coal Mining Co., Garrett, Pa.
Fairchild Aircraft Corp., Hagerstown, Md.
Farnam Co., F. D., Chicago, Ill.
Federal Belting & Asbestos Co., Ltd., The, Toronto, Ontario, Canada.
Fenton Foundry Supply Co., The, Dayton, Ohio.
Fibre & Metal Products, Inc., Downey, Calif.
Follansbee Steel Corp., Pittsburgh, Pa.
Fort Pitt Bridge Works, Canonsburg, Pa.
Fulton Iron Works Co., St. Louis, Mo.
Gates-Mills, Inc., Johnstown, N. Y.
Gatke Corp., Chicago, Ill.
Gay Brothers Co., Cavendish, Vt.
Gebhardt Co., A. L., Milwaukee, Wis.
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Victor Manufacturing & Gasket Co., Chicago, Ill.
Welin Davit & Boat Corp., Perth Amboy, N. J.
Westmoreland Mining Co., Blairsville, Pa.
Whitlock Manufacturing Co., The, Elmwood, Conn.
Williams, White & Co., Moline, Ill.
Williamson Heater Co., The, Cincinnati, Ohio.
Wisconsin Electric Power Co., Milwaukee, Wis.

Wood Steel Co., Alan, Conshohocken, Pa.
Woolley, W. P., Portland, Oreg.
Wyatt Coal Co., Charleston, W. Va.
Youngstown Safety Supply Co., Youngstown, Ohio.
Zaremba Co., Buffalo, N. Y.

UNITED STATES GOVERNMENT

Agriculture, U. S. Department of, Division of Purchase, Sales & Traffic, Washington, D. C.
Federal Works Agency, Public Buildings Administration, Washington, D. C.
Labor, U. S. Department of, Washington, D. C.
Navy Department, Washington, D. C.
Tennessee Valley Authority, Wilson Dam, Ala.
COMMERICAL STANDARDS

CS No. Item
2-30. Monopacks.
4-29. Staple porcelain (all-clay) plumbing fixtures.
5-46. Pipe nipples; brass, copper, steel and wrought-iron (second edition).
7-29. Standard weight malleable iron or steel screwed unions.
16-29. Wall paper.
18-29. Hickory golf shafts.
20-42. Stable vitreous china plumbing fixtures (third edition).
23-30. Feldspar.
24-43. Special threads and tap-drill sizes.
26-30. Aromatic red cedar closet lining.
37-31. Steel bone plates and screws.
38-32. Hospital rubber sheeting.
40-32. Surgeons' rubber gloves.
41-32. Surgeons' latex gloves.
44-32. Apple wraps.

CS No. Item
47-34. Marking of gold-filled and rolled-gold-plate articles other than watchcases.
49-34. Chip board, laminated chip board and miscellaneous boards for bookbinding purposes.
50-34. Binders board for bookbinding and other purposes.
51-35. Marking articles made of silver in combination with gold.
52-35. Mohair pile fabrics (100 percent mo-hair plain velvet, 100 percent mohair plain frieze, and 50 percent wool or plain frieze).
53-35. Colors and finishes for cast stone.
54-35. Mattresses for hospitals.
55-35. Mattresses for institutions.
59-44. Textiles — testing and reporting (fourth edition).
60-36. Hardwood dimension lumber.
61-37. Wood-slat venetian blinds.
63-38. Colors for bathroom accessories.
64-37. Walnut veneers.
66-38. Marking of articles made wholly or in combination with gold.
67-38. Marking articles made of karat gold.
68-38. Liquid hypochlorite disinfectant, deodorant, and germicide.
69-38. Pure oil disinfectants.
72-38. Resins for insecticide (liquid spray type).
75-42. Automatic mechanical draft oil burners designed for domestic installations (second edition).
77-40. Sanitary cast iron enameled ware.
80-41. Electric direction signal systems other than semaphore type for commercial and other vehicles subject to special motor vehicle laws (after market).
81-41. Adverse-weather lamps for vehicles (after market).
82-41. Inner-controlled spotlamps for vehicles (after market).
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Notice.—Those interested in commercial standards with a view toward accepting them as a basis of everyday practice may secure copies of the above standards, while the supply lasts, by addressing the Division of Trade Standards, National Bureau of Standards, Washington 25, D. C.

Where "(E)" precedes the CS-number, it indicates an emergency commercial standard, drafted under war conditions with a view toward early revision.

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