ELECTRIC LICENSE-PLATE LAMPS FOR VEHICLES (AFTER MARKET)

COMMERCIAL STANDARD CS85-41

Effective Date for New Production from January 1, 1941

A RECORDED VOLUNTARY STANDARD OF THE TRADE

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1940
PROMULGATION

of

COMMERCIAL STANDARD CS85-41

for

ELECTRIC LICENSE-PLATE LAMPS FOR VEHICLES

(AFTER MARKET)

On January 11 and 12, 1940, at the instance of the Safety Equipment Manufacturers Association, a general conference of representative manufacturers, distributors, regulatory officials, testing laboratories, and users of electric license-plate lamps for vehicles (after market) adopted a recommended commercial standard for this commodity. Those concerned have since accepted and approved for promulgation by the United States Department of Commerce, through the National Bureau of Standards, the standard as shown herein. The standard is effective for new production from January 1, 1941.

Promulgation recommended.

I. J. Fairchild,
Chief, Division of Trade Standards.

Promulgated.

Lyman J. Briggs,
Director, National Bureau of Standards.

Promulgation approved.

Jesse H. Jones,
Secretary of Commerce.
ELECTRIC LICENSE-PLATE LAMPS FOR VEHICLES
(AFTER MARKET)¹

COMMERCIAL STANDARD CS85-41

EXPLANATORY

As the art of motor-vehicle lighting is a continually developing one, these specifications are necessarily of a current character and are subject to revision from time to time. They are intended to apply primarily to sample equipments submitted by the manufacturer to the testing laboratory for original approval, but may be applied to equipments purchased on the open market or to equipments taken at random from regular production. Should the first sample fail to pass one or more of the test requirements, two more samples may be tested, and, if two out of the three samples comply with each of the requirements, the equipment shall be considered to be satisfactory.

PURPOSE

1. The purpose is to establish specifications and methods of test for electric license-plate lamps (after market) for the guidance of manufacturers, distributors, and users.

SCOPE

2. This standard covers the requirements and methods for construction, vibration and shock, dust, moisture, corrosion, and photometric tests of electric license-plate lamps.

DEFINITION

3. A license-plate lamp is a device to illuminate the license plate on the rear of a vehicle. A “combination” electric tail lamp and electric license-plate lamp shall conform also to the Commercial Standard for Electric Tail Lamps (After Market), CS84-41.

GENERAL REQUIREMENTS

4a. The license-plate light shall be white.

4b. A white lens shall be a lens the color of which, under service conditions, employing a light source having the quality of Interna-

¹ The term “after market” shall be construed to mean any equipment or device manufactured for accessory installation on a vehicle; provided, however, it shall not be construed to mean any equipment or device regularly installed on or furnished for new vehicles by the vehicle manufacturer, and provided further, that it shall not be construed to include genuine replacements of original equipment.
tional Commission on Illumination illuminant A (incandescent lamp at 2,848° K), has values of x and y, neither of which differs from those of illuminant A by more than ±0.01, x and y being trichromatic coefficients derived on the basis of the 1931 ICI standard observer and coordinate system.

5. All screws and nuts used in electric license-plate lamps shall be of stainless steel or nonferrous metal, except that attachment bolts and nuts used to fasten the lamp to bracket may be made of steel or iron properly protected against rusting by plating or processing.

6a. All wiring shall conform to SAE standard specifications known as type No. 2 or better, of electrical conductivity not less than the equivalent of No. 16 AWG (B & S) gage solid copper wire.

6b. If any wire is provided by the manufacturer, all lamps shall be provided with at least 6 inches of wire as specified (if removable plugs are not used) and with solderless terminals for connecting to lead wire.

7. If reflex lenses are included in tail lamp, they shall meet the SAE requirements for such devices.

LAMP BULBS

8. Lamp bulbs used in license-plate lamps shall be of American manufacture. The physical and electrical characteristics of the bulbs used in license-plate lamps shall be in accordance with the current standard SAE or SEMA specifications for such bulbs.

SAMPLES FOR TEST

9. Sample license-plate lamps submitted for laboratory test shall be representative of the devices as regularly manufactured and marketed. Each sample shall include all accessory equipment peculiar to the device and necessary to operate it in normal manner. The vibration and shock, moisture, and dust tests shall be made on the same sample in that order.

10. All bulbs used in photometric tests shall be selected for accuracy in accordance with the Standard SAE Specifications covering lamp bulbs and be operated at their rated mean spherical candlepower during the tests. Unless otherwise specified, the lamp bulbs used in the tests shall be supplied by the laboratory and shall be representative of standard bulbs in regular production. Where special bulbs are specified, they shall be submitted with the devices and the same or similar bulbs used in the tests and operated at their rated mean spherical candlepower.

LABORATORY FACILITIES

11. All laboratory tests shall be made by a recognized, impartial engineering laboratory having all facilities and equipment necessary to make accurate physical and optical tests herein specified in accordance with established laboratory practices.

VIBRATION AND SHOCK TEST

12a. A sample unit, as mounted on the support or supports supplied, shall be bolted to the anvil end of the table of the vibration rack and vibrated approximately 750 times per minute through a distance of \( \frac{1}{2} \) inch. The table shall be spring mounted at one end and fitted with steel calks on the under side of the other end. These calks are to make
contact with the steel anvil once during each cycle at the completion of the fall. The rack shall be operated under a spring tension of 60 to 70 pounds. This test shall be continued for 1 hour.

12b. The unit shall then be examined. Any unit showing evidence of material physical weakness, loosening, or rupture of parts, shall be considered to have failed. Failure of the bulb shall not be considered as failure of the unit.

12c. It is recommended that for the purpose of standardizing the vibration and shock test, the testing machine shall be made substantially in accordance with the drawing, figure 1.
MOISTURE TEST

13a. A sample unit shall be mounted in its normal operating position with any drain holes open and subjected to a precipitation of 0.1 inch of water per minute, delivered at an angle of 45° from a nozzle with a solid-cone spray. During the moisture test, the lamp shall revolve about its vertical axis at a rate of 4 rpm. This test shall be continued for 12 hours. The water shall then be turned off and the unit permitted to drain for 1 hour.

13b. The unit shall then be examined. Any accumulation of more than ½ ml of water in the unit, or warpage or shrinkage of the lens shall constitute a failure.

DUST TEST

14a. A sample unit with any drain hole closed shall be mounted in its normal operating position, at least 6 inches from the wall, in a box measuring 3 feet in all directions, containing 10 pounds of fine powdered cement in accordance with ASTM Specification C9–38. At intervals of 15 minutes, this dust shall be agitated by compressed air or fan blower by projecting blasts of air for a 2-second period in a downward direction into the dust in such a way that the dust is completely and uniformly diffused throughout the entire cube. The dust is then allowed to settle. This test shall be continued for 5 hours.

14b. After the dust test, the exterior surface shall be cleaned, and if the maximum candlepower is within 10 percent of the maximum as compared with the condition after the unit is cleaned inside and out, it shall be considered adequately dust tight.

CORROSION TEST

15a. A sample unit, including mounting bracket, if any, shall be subjected to a 20-percent salt-spray solution for a period of fifty (50) hours consisting of two (2) periods of 24 hours’ exposure and 1 hour’s drying each, at a temperature of 95° F (35° C).

15b. There shall be no evidence of undue or excessive corrosion immediately after the above test has been completed.

PHOTOMETRIC TEST

16a. All foot candle measurements shall be made on a rectangular test plate of clean, white blotting paper mounted on the license-plate holder in the position ordinarily taken by the license plate. This test plate shall be at least 6 by 16 inches. The face of the test plate shall be 1/16 inch from the face of the license-plate holder.

16b. Eight test stations shall be located on the face of the test plate in two horizontal rows and in four vertical rows. The horizontal rows shall be 1 and 5 inches, respectively, from the centers of the bolt slots. The vertical rows shall be 1 and 7 inches, respectively, to the left and right of the vertical center line of the plate.

16c. The lamp design should be such that, when mounted on a car as intended, the angle between the plane of the license plate and the plane on which the vehicle stands will not exceed 90 degrees ±30 degrees.
16d. The lamp and license-plate holder shall bear such relation to each other that at no point on the plate will the major portion of the light incident at that point make an angle of less than 8 degrees to the plane of the plate.

16e. The license-plate holder shall be designed and constructed so as to provide a substantially plane surface on which to mount the plate.

16f. The license-plate window through which the light passes to the license plate shall be of such size and design as to permit the light to reach all parts of the license plate. The shadow cast by the edge of the license-plate window shall clear the far edge of the license plate as represented by a line 6 inches from the bolt centers, by at least 1 inch, measured perpendicularly to the plane of the plate.

16g. The lamps shall meet the current photometric requirements of the IES, SAE, and SEMA. (Illuminating Engineering Society, Society of Automotive Engineers, and Safety Equipment Manufacturers Association.)

**MARKING AND LABELING**

17. Each license-plate lamp manufactured and sold as conforming to this standard shall bear a distinctive designation prominently and permanently indicating the trade-mark of the manufacturer duly applied for or registered under the laws of the United States, or the trade name or other distinctive model, designation, or other means of identification.

18. In order to provide the purchaser with a ready means for distinguishing between electric license-plate lamps which meet the requirements of this standard and those which do not, the Safety Equipment Manufacturers Association has adopted the wording quoted below for labels or statements on cartons. The mark “SEMA-APPROVED,” on the lamps is based upon tests on samples and reexaminations by a recognized impartial engineering laboratory. It illustrates a method of certifying that these items comply with the commercial standard.

This Electric License-plate Lamp, marked SEMA-APPROVED, is certified by the Safety Equipment Manufacturers Association and by the manufacturer as conforming to Commercial Standard CS85-41.

**EFFECTIVE DATE**

The standard is effective for new production from January 1, 1941.

**HISTORY OF PROJECT**

Pursuant to a request on July 18, 1938, from the Safety Equipment Manufacturers Association (then known as the MEMA Light and Signal Group) for the cooperation of the National Bureau of Standards in the establishment of commercial standards for nine items of

---

1 The 1939 photometric requirements of the IES, SAE, and SEMA are as follows:

The illumination at each of the 8 stations on the test plate shall be at least 0.5 foot candle. The ratio of maximum illumination to minimum illumination shall not exceed 30 to 1. The average of the 2 highest and the 2 lowest illumination values recorded at the 8 test stations shall be taken as such maximum and minimum values, respectively.
lamps and signal equipment for vehicles (after market), preliminary conferences of all interested manufacturers were held in Detroit on September 22 and 23, 1938, and again on March 1 and 2, 1939, in order to adjust the drafts to suit the consensus of producers.

The proposed standards, as adjusted by the preliminary manufacturers' conferences, were then submitted to the American Association of Motor Vehicle Administrators and other key organizations for advance consideration and recommendations. Following receipt of these recommendations, a general conference was held in Washington, D. C., on January 11 and 12, 1940, to which all interested producers, distributors, users, regulatory bodies, and testing laboratories were invited. The report of the general conference was circulated on February 20, 1940.

On April 8, 1940, copies of the Recommended Commercial Standards as adopted by the general conference, including recommendations of two subcommittees appointed by the conference, were circulated to all concerned for written acceptance. Upon receipt of written acceptances from a preponderant majority, announcement was issued on July 10, 1940, that the standards would become effective for new production from January 1, 1941.

STANDING COMMITTEE

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. Each association nominated its own representatives. Comment concerning the standard and suggestions for revision may be addressed to any member of the committee or to the Division of Trade Standards, National Bureau of Standards, which acts as secretary for the committee.

Manufacturers:

H. B. DONLEY (chairman), Columbus Metal Products, Inc., 767 North 4th St., Columbus, Ohio. Representing Safety Equipment Manufacturers Association.

A. B. DETTMER, K-D Lamp Co., 610 West Court St., Cincinnati, Ohio. Representing Safety Equipment Manufacturers Association.


R. N. FALGE, Guide Lamp Division, General Motors Corp., Anderson, Ind. Representing Society of Automotive Engineers.

WILLIAM F. LITTLE, Electrical Testing Laboratories, East End Ave. at 79th St., New York, N. Y. Representing Society of Automotive Engineers.

Distributors:

W. E. BLANCHARD, National Automobile Dealers Association, 154 Bagley Avenue, Detroit, Mich.

G. B. CORNWELL, Sears, Roebuck & Co., Homan Ave. & Ardington St., Chicago, Ill. Representing Mail Order Association of America.


Users:

CHARLES G. MORGAN, JR., American Trucking Associations, Inc., 1013 16th St., NW., Washington, D. C.


BURLTON W. MARSH, American Automobile Association, Mills Bldg., 17th and Pennsylvania Ave., Washington, D. C.

Alternate: EARL ALLGAIER.
SUPPLEMENT TO

ELECTRIC LICENSE-PLATE LAMPS FOR VEHICLES
(AFTER MARKET)

COMMERCIAL STANDARD CS85-41

ADOPTED BY THE INDUSTRY
ON RECOMMENDATION OF THE STANDING COMMITTEE
EFFECTIVE DATE FOR NEW PRODUCTION, SEPTEMBER 15, 1941.

---

IN THE ABOVE PAMPHLET, CORRECT PARAGRAPH 6A
READ AS FOLLOWS:

"ALL WIRE USED SHALL BE STRANDED
COPPER CONFORMING TO SAE STANDARD SPECIFICATIONS KNOWN AS TYPE NO. 2 OR BETTER, AND
SHALL HAVE AN ELECTRICAL RESISTANCE NOT IN EXCESS OF 4.71 OHMS PER 1000 FEET AT 68°F
OR SHALL HAVE A CROSS-SECTIONAL AREA OF
NOT LESS THAN 2361 CIRCULAR MINS."

DIVISION OF TRADE STANDARDS
NATIONAL BUREAU OF STANDARDS

INSERT OPPOSITE PAGE 2.
To the Manufacturers, Distributors, Regulatory Officials and Users of Lamps and Signal Equipment for Vehicles.

Subject: Lamps and Signal Equipment for Vehicles (After Market), CS80-41 to CS86-41 - Extention of Effective Date to July 1, 1941.

Gentlemen:

Under date of January 28, the Safety Equipment Manufacturers' Association reported the current impracticability of obtaining stranded copper wire and amber lenses conforming to Commercial Standards CS80-41 to CS86-41, inclusive, and requested, therefore, that the effective date on these Standards be postponed.

According to our understanding, the SEMA is now working in cooperation with the Electrical Testing Laboratories, the Society of Automotive Engineers, the wire manufacturers, and the lens manufacturers, in an effort to obtain material which will conform respectively with the S.A.E. specifications for wire, and with the commercial standards' limits for amber glass, and it is their belief that this can be accomplished prior to July 1, 1941.

Agreeable to the above request and with the approval of the Standing Committee, the effective date for new production of the corresponding items of Lamps and Signal Equipment (After Market) according to Commercial Standards CS80-41 to CS86-41, inclusive, is hereby extended from January 1, 1941, to July 1, 1941.

It may be well to note that this extension of the effective date does not apply to Red Electric Warning Lanterns, CS87-41, and Liquid-Burning Flares, CS88-41.

Cordially yours,

I. J. Fairchild,
Chief, Division of Trade Standards
Electric License-Plate Lamps

MARTIN SCHREIBER, Public Service Coordinated Transport, 80 Park Place Newark, N. J. Representing National Association of Motor Bus Operators.

General Interest:

H. H. ALLEN, Interstate Commerce Commission, Washington, D. C.
Alternate: H. H. ALLEN.

FRANK W. MATSON, Minnesota Railroad and Warehouse Commission, St. Paul, Minn. Representing National Association of Railroad and Utilities Commissioners.

J. J. SHANLEY, Department of Motor Vehicles, Trenton, N. J. Representing American Association of Motor Vehicle Administrators.

Laboratories:

SYDNEY V. JAMES, Underwriters’ Laboratories, Inc., 207 E. Ohio St., Chicago, Ill.
MONROE L. PATZIG, American Council of Commercial Laboratories, 2215 Ingersoll Ave., Des Moines, Iowa.
WM. F. LITTLE, Electrical Testing Laboratories, East End Ave., at 79th St., New York, N. Y.
Alternate: HERMAN KOENIG.
CS85-41

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, D. C.

Gentlemen:
Having considered the statements on the reverse side of this sheet, we accept the Commercial Standard CS85-41 as our standard of practice in the
Production Distribution Use
of electric license-plate lamps.
We will assist in securing its general recognition and use and will cooperate with the standing committee to effect revisions of the standard when necessary.

Signature of individual 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 and State

1 Please designate which group you represent by drawing lines through the other two. Please file separate acceptances for all subsidiary companies and affiliates which should be listed separately as acceptors. In the case of related interests, trade papers, colleges, etc., desiring to record their general approval, the words "in principle" 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 acceptance 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.

10
ACCEPTORS

The organizations and individuals listed below have accepted this standard as their standard of practice in the production, distribution, and use of electric license-plate lamps. Such endorsement does not signify that they may not find it necessary to deviate from the standard, nor that producers so listed guarantee all of their products in this field to conform with the requirements of this standard. Therefore, specific evidence of conformity should be obtained where required.

ASSOCIATIONS

American Transit Association, New York, N. Y.
Arkansas, Associated Motor Carriers of, Little Rock, Ark.
Michigan Trucking Association, Detroit, Mich.
National Standard Parts Association, Detroit, Mich. (In principle.)
Safety Equipment Manufacturer’s Association, Inc., New York, N. Y.

FIRMS

A. G. Sales Co., Inc., New York, N. Y. (In principle.)
Adley Express Co., Inc., New Haven, Conn.
Aetna Motor Products Co., Boston (Dorchester), Mass.
Anthes Force Oil Co., Fort Madison, Iowa.
Appleton Electric Co., Chicago, Ill.
Approved Patents Corporation, New York, N. Y.
Arrow Safety Device Co., Medford, N. J.
Atlantic Greyhound Corporation, Charleston, W. Va.
Autocar Co., The, Ardmore, Pa.
Bendix Aviation Corporation, Bendix Products Division, New York, N. Y.
Bolser Corporation, The, Cedar Falls, Iowa.
Carlton Lamp Corporation, Union City, N. J. (In principle.)
Casco Products Corporation, Bridgeport, Conn.
Central Co-operative Wholesale, Superior, Wis.
Coleman Motors Corporation, Littleton, Colo.
Colorado, State Highway Department of, Traffic Division, Denver, Colo. (In principle.)
Columbus Metal Products, Inc., Columbus, Ohio.
Connecticut, State Motor Vehicle Department of, Hartford, Conn.
Connecticut Telephone & Electric Corporation, Meriden, Conn.
Crescent Co., The, Pawtucket, R. I.
Dallas, Better Business Bureau of, Dallas, Tex. (In principle.)
Detroit Testing Laboratory, The, Detroit, Mich. (In principle.)
Dietz Co., R. E., New York, N. Y. (In principle.)
Divo-Twin Truck Co., Detroit, Mich.
Dixie Motor Coach Corporation, Dallas, Tex.
Economy Electric Lantern Co., Inc., Milwaukee, Wis.
electrical Testing Laboratories, New York, N. Y. (In principle.)
Firestone Tire & Rubber Co., The, Akron, Ohio.
Hunt & Co., J. R., Baltimore, Md.
Idaho, State of, Boise, Idaho.
K-D Lamp Co., The, Cincinnati, Ohio.
Lancaster Lens Co., The, Lancaster, Ohio.
Machine Reporter Corporation, Portland, Oreg.
Maryland Casualty Co., Baltimore, Md. (In principle.)
McKee Glass Co., Jeannette, Pa.
Mercury Motors, Inc., Fort Smith, Ark.
Miller Co., The A. J., Bellefontaine, Ohio.
Minnesota Department of Highways, St. Paul, Minn.
Moreland Motor Truck Co., Los Angeles, Calif.
National Transportation Co., Inc., Bridgeport, Conn.
Nebraska State Railway Commission, Lincoln, Nebr.
Oklahoma Department of Public Safety, Oklahoma City, Okla.
Packard Properties, Inc., General Accessories, Division of, New York, N. Y.
Patzig Testing Laboratories, Des Moines, Iowa.
Peltier Glass Co., The, Ottawa, Ill.
Perfection Motor Products Co., The, Bridgeport, Conn.
Pollak Corporation, Joseph, Boston (Dorchester), Mass.
Premier Signal Co., Bellevue, Ohio.
Protectall Motor Signal, Inc., Syracuse, N. Y.
Purdue University, Engineering Experiment Station, Lafayette, Ind. (In principle.)
Reo Motors, Inc., Lansing, Mich.
S&J Lamp Co., Los Angeles, Calif.
Sears, Roebuck & Co., Chicago, Ill.
Sunshine Bus Lines, Inc., Dallas, Tex.
Tennessee Department of Safety, Nashville, Tenn.
Trippe Manufacturing Co., Chicago, Ill.
U. S. Metal Products Co., New York, N. Y.
Unity Manufacturing Co., Chicago, Ill.
Virginia, Division of Motor Vehicles of, Richmond, Va. (In principle.)
Walter Motor Truck Co., Ridgewood, L. I., N. Y.
Ward Motor Vehicle Co., Mount Vernon, N. Y.
Washington, State of, Olympia, Wash.
Western Auto Supply Co., Kansas City, Mo.
Wisconsin, Motor Vehicle Department of, Madison, Wis.
Yankee Metal Products Corporation, Norwalk, Conn.

U. S. Government

Agriculture, U. S. Department of, Office of Plant & Operations, Washington, D. C.
Foreign & Domestic Commerce, Bureau of, Electrical Division, Washington, D. C. (In principle.)
Panama Canal, The, Transportation Division, Supply Department, Balboa Heights, Canal Zone.
Veterans' Administration, Washington, D. C.
War Department, Washington, D. C.
COMMERCIAL STANDARDS

CS No.       Item

0-40. Commercial standards and their value to
business (third edition).
2-30. Mopsticks.
4-29. Staple procinol (all-clay) plumbing fixtures.
5-40. Pipe nipples; brass, copper, steel, and wrought
iron.
Superseded by CSNo.48.
7-29. Standard weight malleable iron or steel
pipes.
11-29. Regulating mercerized cotton yarns.
14-30. Boys’ button-on waists, shirts, junior and polo
shirts (made from woven fabrics) (second
edition).
16-29. Wall paper.
18-29. Hickory golf shafts.
20-38. Staple vitreous china plumbing fixtures (sec-
ond edition).
21-39. Interchangeable ground-glass joints, stop-
cocks, and stoppers (made from woven fabrics) (second
edition).
22-40. Builders’ hardware (non-template) (second
edition).
23-30. Fieldspar.
25-30. Special screw threads.
26-30. Cast iron pipe nipples.
32-31. Cotton cloth for rubber and pyroxylon coating.
33-32. Knit underwear (exclusive of rayon).
35-31. Plywood (hardwood and eastern red cedar).
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.
45-40. Douglas fir plywood (domestic grades)
(fourth edition).
47-34. Marking of gold-filled and rolled-gold-plate
articles other than watch cases.
48-34. Domestic burners for Pennsylvania anthra-
cite (underfed type).

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, D. C.