

Letter
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THE CERTIFICATION PLAN
ITS SIGNIFICANCE, SCOPE AND APPLICATION
TO
SELECTED FEDERAL SPECIFICATIONS AND COMMERCIAL STANDARDS

WILLING-TO-CERTIFY SOURCES OF SUPPLY
OF
COMMODITIES
COVERED

BY
FEDERAL SPECIFICATIONS
AND
COMMERCIAL STANDARDS

PREPARED BY
THE DIVISION OF CODES AND SPECIFICATIONS
NATIONAL BUREAU OF STANDARDS
DEPARTMENT OF COMMERCE
WASHINGTON, D. C.

CONTENTS

	Page
Foreword.....	1
The Certification Plan.....	1
Willing-to-Certify Sources of Supply.....	2
Service to Tax-Supported Purchasing Agencies.....	3
Significance and Status of Federal Specifications.....	4
Application of Certification Plan to Federal	
Specifications.....	5
Selection of Specifications.....	5
Compilation of Willing-to-Certify Lists.....	6
Voluntary Listing.....	6
Distinction Between Federal Specifications and	
Commercial Standards.....	6
Application of the Certification Plan to	
Commercial Standards.....	6
The Use of Labels and Certificates.....	7
Need for Testing Service.....	7
Misrepresentation in Certification.....	7
Notice to Purchasing Officers.....	7
Obligations to Producers and Consumers.....	8
Result of Widespread Application of Certification Plan.....	8
Resulting Economics.....	8
Attitude of Consumer Groups, Trade Associations and	
Technical Societies.....	9
Attitude of Those Opposed to Specifications.....	9
Cooperation of Industry.....	10
Status of Certification Plan.....	11
Available Lists of Willing-to-Certify Sources of Supply.....	12
Index of Commodity Groups.....	13
Classified Index of Federal Specifications to which the	
Certification Plan has been Applied.....	14
Group C Animal Products.....	14
" H Brooms and Brushes.....	14
" J Cable and Wire (insulated).....	15
" M Ceramics.....	15
" N Cereals and Products.....	15
" O Chemicals.....	15
" F Cleaning and Polishing Materials.....	16
" Q Coal and Products.....	16
" R Coal-Tar and Products.....	17
" T Cordage, Twine and Products.....	17
" U Drugs and Medicines.....	17
" V Dry Goods and Notions.....	17
" W Electric Apparatus.....	17
" AA Furniture.....	18

CONTENTS - continued

Classified Index of Federal Specifications to which the Certification Plan has been Applied - continued

		Page
Group	DD Glass and Glassware.....	18
"	FF Hardware.....	19
"	GG Instruments.....	19
"	HH Insulating Materials.....	19
"	JJ Knit-Goods, Netting and Webbing.....	20
"	KK Leather and Leather Goods.....	21
"	MM Lumber and Timber.....	21
"	NN Lumber Products.....	21
"	OO Machinery.....	21
"	QQ Metals.....	22
"	RR Metal-Products.....	23
"	SS Minerals and Products (non-metallic).....	23
"	TT Paints; Pigments, Varnishes and Products.....	24
"	UU Paper and Products.....	25
"	VV Petroleum and Products.....	27
"	WW Pipe, Pipe-Fittings, Plumbing Fixtures, Tubes and Tubing (metallic).....	27
"	ZZ Rubber and Rubber Goods.....	28
"	AAA Scales.....	29
"	CCC Textiles (yardage).....	30
"	DDD Textile-Products.....	30
"	GGG Tools.....	31
"	JJJ Vegetable-Products.....	32
"	LLL Wood-Products.....	32
List of Commercial Standards to which the Certification Plan has been Applied.....		33

THE CERTIFICATION PLAN
ITS SIGNIFICANCE, SCOPE AND APPLICATION
TO
SELECTED FEDERAL SPECIFICATIONS AND COMMERCIAL STANDARDS.

Prepared by The Division of Codes and Specifications,
National Bureau of Standards.

FOREWORD

The specification is the common meeting ground for the producer, distributor, and consumer. It is at once a statement of what the consumer needs and what the producer is required to supply. Purchase by competitive bids on specifications is preferable to purchase on sample. The latter method implies that each bidder's product must be considered independently, and it is often a very difficult matter to decide between different combinations of quality and price.

A proper specification is one which enables bidders to know exactly what is desired or required and what procedure the purchaser will follow to satisfy himself that the specification has been complied with. The modern manufacturer, knowing accurately the buyer's needs, can determine the most suitable material and the most economical method of fabrication to obtain the desired results.

Many excellent specifications well recognized in industry are not now widely used because of the inability of many purchasers to determine whether or not commodities delivered conform to the specification. The use of specifications can be greatly facilitated by minimizing this disadvantage to small-quantity purchasers.

As a solution to the problem of minimizing the above mentioned disadvantage and thereby facilitating the use of specifications the certification plan was inaugurated in 1925.

THE CERTIFICATION PLAN

THE CERTIFICATION PLAN CONSISTS OF THE COMPILATION AND DISTRIBUTION BY THE NATIONAL BUREAU OF STANDARDS OF LISTS OF SOURCES OF SUPPLY OF COMMODITIES COVERED BY CERTAIN SELECTED FEDERAL SPECIFICATIONS AND COMMERCIAL STANDARDS. THESE LISTS CONTAIN THE NAMES OF FIRMS WHO HAVE INDICATED THEIR WILLINGNESS TO CERTIFY TO PURCHASERS, UPON REQUEST, AT THE TIME OF PLACING THE CONTRACT, THAT THE MATERIAL SUPPLIED BY THEM ON CONTRACTS BASED ON THE SELECTED SPECIFICATIONS AND STANDARDS DOES ACTUALLY COMPLY WITH THE REQUIREMENTS AND TESTS THEREOF AND IS SO GUARANTEED BY THEM.

WILLING-TO-CERTIFY SOURCES OF SUPPLY

The lists of sources of supply of commodities certified to comply with certain selected Federal specifications and commercial standards--the lists of WILLING-TO-CERTIFY firms referred to herein--are limited to primary sources of supply which include the following groups:

1. Firms **doing** the actual manufacturing and selling their own products;
2. Firms having commodities manufactured for them on their own specifications and assuming full responsibility for the commodities marketed;
3. Sole selling agents of firms who manufacture, but do no marketing.

At the present time, there have been prepared such lists of sources of supply for 665 Federal specifications and 54 commercial standards.

The lists are continuously subject to revision and enlargement additions being made to both the number of lists of WILLING-TO-CERTIFY manufacturers, and the number of manufacturers on the individual lists.

Purchasers who might be inclined to do business with unknown or untried manufacturers whose names appear on the WILLING-TO-CERTIFY lists should not fail to insist upon receiving from such manufacturers properly signed certificates guaranteeing compliance with the specification requirements.

In order to avoid delay and confusion, when placing orders and requesting certificates from WILLING-TO-CERTIFY manufacturers, the correspondence should always be conducted with the individual officer of the company whose name appears on the WILLING-TO-CERTIFY list. This officer can be assumed to be familiar with the specification and with the plan for issuing certificates, whereas other officers of the same company may be unfamiliar therewith.

It is to be definitely understood that the certificates are to be issued by the manufacturers to the purchasers, and not to the National Bureau of Standards, which assumes no responsibility of any kind in connection with the transaction. The purchaser must take such steps as he considers desirable to determine whether or not the commodities delivered do actually comply with the specifications.

Experience in the actual operation of the certification plan demonstrates the desirability, from the point of view of the manufacturer of having all of his branch offices and authorized dealers informed promptly concerning his listing among the WILLING-TO-CERTIFY manufacturers. It is suggested, therefore, that copies of all of the Federal specifications for commodities upon which requests for bids in accordance with the certification plan are desired, be placed on file with all bidding officers.

Copies of Federal specifications and amendments, if desired by non-governmental activities, may be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C. for a very nominal price, usually 5 cents each. Requests should be accompanied by cash, check, money order, or coupon.

Copies of specifications and amendments desired by Government departments, and establishments should be obtained from the department representative on the Federal Standard Stock Catalog Committee, or, if there is no such representative, they should be obtained direct from that committee, Room 376 Procurement Division Building; Washington, D. C.

Federal specifications are not available for issue from the National Bureau of Standards.

A complete index of Federal specifications may be obtained upon application, to the Superintendent of Documents, Government Printing Office, Washington, D. C. for 15 cents a copy. In this index, the titles of all specifications for which WILLING-TO-CERTIFY lists are available are identified by the letter "D".

Lists of sources of supply for commodities covered by Federal specifications are designated as Letter Circular LC256a (in 12 parts listed on page 12) and their distribution is limited to tax-supported purchasing agencies (Federal, State, County and municipal). Individual lists are sent to others upon specific request.

Letter Circular LC277a contains lists of sources of supply of commodities covered by commercial standards. Its distribution is unlimited, being sent to all interested agencies and individuals.

Copies of the above letter circulars are available upon request, from the Division of Codes and Specifications, National Bureau of Standards, Washington, D. C.

SERVICE TO TAX-SUPPORTED PURCHASING AGENCIES.

From time to time State and other public purchasing agencies have sought the assistance of the United States Department of Commerce in the formulation of standards, specifications, and methods of tests for their purchases. Every effort is, therefore, exerted to make the certification plan as effective as possible for "public purchasers", that is purchasers for the Federal, State, County and municipal governments and institutional agencies who are spending the money collected from the public in the form of taxes.

SIGNIFICANCE AND STATUS OF FEDERAL SPECIFICATIONS

The specifications that are prepared, adopted by the Federal Specifications Executive Committee and approved by the Director of Procurement, are, as far as applicable, binding upon and govern all departments, bureaus, agencies and offices of the Government.

In formulating specifications for the United States Government, the Federal Specifications Executive Committee acts for the Government departments as consumers, not as law makers, and no specification is promulgated until after interested producers have had opportunity to offer constructive criticisms. To as great an extent as practicable the Federal Government as a consumer makes use in its specifications of the requirements set forth in the specifications of nationally recognized organizations. On Dec. 1, 1924, each chairman of a technical committee formulating Federal specifications was given the following instructions:

"If there is an existing specification which is adequate for Government requirement, it is desired that such specification be adopted, rather than to write a new specification with slight unnecessary variations, which might require special fabrication with the resulting unnecessary increased costs."

Before placing any of the Federal specifications in final form for promulgation for the use of the Government departments and establishments, all criticisms of the specifications and advice received from interested commercial and industrial concerns are given serious consideration by the technical committees. Moreover, the specifications in tentative form are submitted formally to all departments and establishments of the Government and informally for criticism and suggestion to various interested engineering and technical societies.

Special effort is made continuously to bring Federal specifications into harmony with the best commercial practice effectively and rapidly. The certification plan is helpful in accomplishing this result.

The setting up of a recognized standard of quality does not in the least prevent an organization from using this standard for measuring and guaranteeing quality in excess thereof.

Up to June 1, 1939, the Federal Specifications Executive Committee had formulated and promulgated a total of 1,233 specifications, many of which have been revised one or more times. Some of the original specifications have been suspended and some have been consolidated and a few separated into two or more specifications. Since June 1930, all of the Master Specifications then in existence have been reviewed by the technical committee responsible for their formulation for the purpose of making such revisions in substance as might be found desirable and placing them in the standardized "purchase form" for inclusion in the Federal Standard Stock Catalogue..

Encouraging the maximum possible number of purchasing agents to make use of Federal specifications broadens the field of supply by inducing the maximum possible number of producers to manufacture commodities meeting the requirements of the Federal Government. Moreover, the wide-spread use of Federal specifications serves to draw attention to such modifications as might well be made therein in order to render them satisfactory to contract buyers, and to bring them into harmony with the best commercial practice.

APPLICATION OF CERTIFICATION PLAN TO FEDERAL SPECIFICATIONS

The Federal specifications to which the certification plan has been applied represent almost one-half of the total number of specifications prepared by the Federal Specifications Executive Committee--the largest and most nearly-up-to-date group of nationally-recognized commodity specifications in successful use at the present time.

About 60 percent of the lists relate to types of commodities not only purchased on the basis of formal contracts, but also handled in "over-the-counter" trade (that is, to so-called "consumer goods,") and 40 percent of the formal requests for listings have been filed by manufacturers of these commodities.

About 30 percent of the Federal specifications to which the certification plan has been applied and nearly 60 percent of the requests for listings relate to building and construction materials, fixtures, supplies and equipment. Many of these, such as paints, hardware, and electrical products apply also to "Consumer Goods".

The groups of commodities covered by the specifications to which the certification plan has been applied, the number of Federal specifications in each group, the number of requests for listing, and the number of firms requesting listing in each group, are summarized on page 11.

SELECTION OF SPECIFICATIONS

Only such Federal specifications as are believed by the committees responsible for the preparation and revision thereof to be thoroughly satisfactory to both producers and consumers in their present form are selected in applying the certification plan.

The chairman of each technical committee is given reasonable notice (about 60 days) before putting any of the Federal specifications on "certification", so that any desirable revisions may be adopted prior to "certification". Thus the selection is limited to "seasoned" specifications, believed to be commercially satisfactory.

COMPILATION OF WILLING-TO-CERTIFY LISTS

To all known manufacturers of the general line of commodities covered by the selected specifications, or group of specifications, is sent a check-list of the particular kinds of commodities called for by the specifications. From the complete list of firms (which can be found in several directories) are omitted such manufacturers as do not indicate on the check-list that they produce the exact kinds of commodities referred to, and from the smaller lists are then omitted those manufacturers who do not desire to produce commodities in accordance with the designated specifications and from the still smaller lists are omitted such firms as have not expressed their willingness to certify to the purchaser, upon request, that the commodities delivered under a contract based on the designated specifications, do actually comply therewith.

VOLUNTARY LISTING

Great care is used to make as nearly complete as possible the initial lists of firms manufacturing commodities of the same general type as that covered by a specification to which the certification plan is being applied, and extreme care is exerted to have the final WILLING-TO-CERTIFY listing entirely voluntary. Follow-up letters are sent in connection with the initial, but not the final, listing. No attempt has been made to induce manufacturers, not desiring to do so, to be listed as WILLING-TO-CERTIFY.

DISTINCTION BETWEEN FEDERAL SPECIFICATIONS AND COMMERCIAL STANDARDS

Federal specifications are prepared by official representatives of the more important Federal Government agencies for the use of all Federal agencies. Their use by other agencies is entirely voluntary. Although these specifications are of much interest to producers who desire to supply commodities based on them, no producer is asked to confine his transactions to these commodities.

Commercial standards on the other hand, are commercial specifications voluntarily developed and supported by producers, distributors, and consumers as a basis for marketing by the industries concerned, for both contract and over-the-counter buyers. Manufacturers, dealers, and users are asked to limit their transactions to those lines of commodities so far as they can conveniently do so.

APPLICATION OF CERTIFICATION PLAN TO COMMERCIAL STANDARDS

The certification plan has been applied to 54 of the 73 existing commercial standards. Approximately 1,750 firms have indicated their desire to be listed among the WILLING-TO-CERTIFY manufacturers of the wide variety of commodities covered by commercial standards.

Application of the certification plan to commercial standards has been in accordance with the formal request of the general conferences of industry which adopted these standards.

THE USE OF LABELS AND CERTIFICATES

Certain manufacturers are now using or planning to use quality-guaranteeing labels with goods manufactured to comply with Federal specifications. The preferable form of self-identifying, quality-guaranteeing certificates or labels is one which shows the guaranteed compliance of the labeled commodity with the requirements of a designated nationally-recognized specification or standard. Labels or certificates should identify not only the specifications or standards, but also the firm or agency holding itself responsible for the guarantee. The following form is suggested.

"The- - - - -Manufacturing Company guarantees
this - - - - - to comply with the requirements
of Federal Specification - - - - -."

NEED FOR TESTING SERVICE

A greatly increased realization of the need for testing service by both producers and consumers is to be anticipated from the widespread application of the certification plan. Manufacturers will be in need of testing and inspection service upon which to base such certificates as they may be asked to issue to consumers buying upon nationally recognized specifications, and numerous consumers will resort to such tests as may be considered necessary or desirable to satisfy themselves that the commodities delivered do actually comply with the specifications.

MISREPRESENTATION IN CERTIFICATION

Misrepresentation in connection with the certification plan is a proper subject for action by the Federal Trade Commission. However, it is unnecessary for the Federal Government to police the contracts entered into by buyers and sellers of commodities guaranteed to comply with certain specifications. The existing laws of the land relating to contracts are adequate to take care of all such cases. Misrepresentation means obtaining, by false representation, business, which rightly belongs to a competitor. Hence, competitors, collectively, are more vitally interested in the unethical practices of a manufacturer than is an isolated purchaser. By cooperating in the certification plan, trade associations, inspection bureaus, testing establishments, and similar organizations, can render a real service to both the producer and the consumer.

NOTICE TO PURCHASING OFFICERS

The National Bureau of Standards will be pleased to be notified promptly in case any firm listed as WILLING-TO-CERTIFY, fails, when requested to do so at the time of placing the contract, to issue a certificate guaranteeing compliance of the delivered commodity with the designated Federal specification or commercial standard. The Bureau wishes, also, to receive notice of failure of delivered goods to meet the specification requirements when tested in accordance with the methods set forth in the specification.

OBLIGATIONS TO PRODUCERS AND CONSUMERS

While safeguarding the interests of the Federal Government as a purchaser the certification plan also conserves the interests of the producer. It is being so applied as (1) to bring the United States Government commodity specifications to the attention of all interested responsible manufacturers throughout the United States and not merely to the attention of the favored few; (2) to list as sources of supply of commodities covered by these specifications all responsible manufacturers who have expressed their desire to be listed, even though some other manufacturers may not care to be listed, and notwithstanding the opposition of certain manufacturers who can obtain business satisfactory to them without being listed; (3) to distribute copies of the list of "sources of supply" to all governmental and institutional buyers making purchases out of tax money; (4) to supply copies to nongovernmental purchasers only when specifically requested to do so.

RESULT OF WIDESPREAD APPLICATION OF CERTIFICATION PLAN

An analysis of the lists of WILLING-TO-CERTIFY manufacturers already compiled shows that they contain the names of many progressive, wide-awake firms, irrespective of size, in all lines of manufacture covered by the specifications to which the certification plan has been applied.

Manufacturers have been quick to recognize the potential advertising value of a statement in their sales literature and advertising to the effect that their material is guaranteed to conform to certain well-known specifications.

The result to be expected from a widespread application of the certification plan is a general recognition of specifications as the proper, logical, and economical basis of the written contract between the buyer and the seller.

RESULTING ECONOMIES

Considerable economy to the country as a whole would result from abolishing the hit-or-miss method of specifying, hit-or-miss method of manufacturing, and hit-or-miss method of testing, and substituting therefor a logical arrangement in accordance with which (1) a nationally recognized specification for a selected commodity is so formulated as to cover the most satisfactory commodity in the best possible manner; (2) this commodity is placed in mass production by the manufacturers in accordance with this specification; (3) certificates are issued by the suppliers guaranteeing compliance with the specification; and (4) tests and inspections, based on this identical specification, are conducted by independent testing and guaranteeing establishments.

Some idea of the value attached to the lists of WILLING-TO-CERTIFY manufacturers by such officers of the Federal Government as are directly concerned with the Government departments and establishments as consumers, not as law makers, can be gained from the fact that the purchasing agencies of the Government departments and establishments, wherever their headquarters may be located, are making effective use of the WILLING-TO-CERTIFY lists of manufacturers.

ATTITUDE OF CONSUMER GROUPS TRADE ASSOCIATIONS AND TECHNICAL SOCIETIES

Without exception organized consumer groups are definitely in favor of the application of the certification plan for facilitating the use of specifications, as shown by statements from officers of those groups. Included among these, in addition to Federal agencies, are the American Hospital Association, American Sanatorium Association, Educational Buyers Association, the Governmental Purchasers Group, International City Managers Association, National Association of Public School Business Officials, the National Association of Purchasing Agents, the National Educational Association, the National Municipal League, and the National Tuberculosis Association.

Correspondence conducted with the officers of technical societies and trade associations showed that all technical societies familiar with the formulation of specifications look with favor upon the certification plan as an effective method of bringing specifications to the attention of the interested producers and consumers. With surprisingly few exceptions, the officers of trade associations (many of whom might have been assumed to be opposed to the plan, at least initially) are actually very favorably inclined toward it.

ATTITUDE OF THOSE OPPOSED TO SPECIFICATIONS

It is not to be assumed that all manufacturers are enthusiastically advocating specifications. However, many manufacturers have expressed their approval of the application of the certification plan to nationally recognized specifications formulated under the auspices of, or with the cooperation of associations in which they hold membership, even though some of these manufacturers would prefer their customers not to order on specifications. In other words, they consider it better to have the various isolated specification users make use of commercially accepted specifications than to have them write their own specifications. To the extent that the certification plan will be effective in unifying the specifications used by those who will in any event buy on specifications, these manufacturers approve of the plan as tending to "minimize the evils of specification buying."

COOPERATION OF INDUSTRY

There are several ways in which industry, through representative trade associations, can become very active in the certification plan for facilitating the use of nationally recognized specifications.

(a) First, is publicity, by means of which the industry will be made acquainted with the real significance of the undertaking and shown the benefits to be derived from the plan.

(b) Second, is through cooperation in the preparation of nationally recognized specifications.

(c) Next is cooperation in the plan by inducing all the members of the association to have their names included in the list of manufacturers willing to certify to the purchaser that the commodities supplied by them under nationally recognized specifications comply with the requirements and tests of these specifications.

(d) Trade associations representing wholesalers, retailers, or manufacturers reaching consumers through retailers, can be of much help in showing the wholesalers and retailers how they will benefit from the plan.

(e) A final step for the trade association is to make sure that its members are keeping faith so far as the certification plan is concerned.

STATUS OF CERTIFICATION PLAN (June 1, 1939)

CLASSIFICATION OF SPECIFICATIONS BY COMMODITIES		NUMBER OF SPECIFI- CATIONS	SUMMARY OF WILLING TO CERTIFY SOURCES OF SUPPLY		
GROUP SYMBOL	COMMODITY GROUPS		LISTS	FIRMS	LISTINGS
C	Animal Products.....	24	4	33	33
G	Books and Printed Matter.....	2	None	None	None
H	Brooms and Brushes.....	53	50	132	949
J	Cable and Wire.....	4	4	28	75
K	Canvas Articles.....	1	None	None	None
M	Ceramics.....	1	1	13	13
N	Cereals and Products.....	24	1	21	21
O	Chemicals.....	27	19	142	239
P	Cleaning and Polishing Materials...	33	28	285	925
Q	Coal and Products.....	1	1	27	27
R	Coal-Tar and Products.....	9	7	35	150
S	Cooking and Heating Apparatus, Etc..	1	None	None	None
T	Cordage, Twine and Products.....	11	8	58	123
U	Drugs and Medicines.....	2	1	27	27
V	Dry Goods and Notions.....	7	4	107	184
W	Electric Apparatus.....	36	11	79	132
Y	Fruits.....	24	None	None	None
Z	Fruit Products.....	30	None	None	None
AA	Furniture.....	25	23	101	267
DD	Glass and Glassware.....	11	9	29	44
EE	Groceries.....	18	None	None	None
FF	Hardware.....	22	22	281	435
GG	Instruments.....	29	12	70	90
HH	Insulating Materials.....	49	36	204	627
JJ	Knit Goods, Netting and Webbing....	15	1	5	5
KK	Leather and Leather Goods.....	19	19	148	259
LL	Livestock, Poultry & Marine Prods..	1	None	None	None
MM	Lumber and Timber.....	3	2	5608	6190
NN	Lumber Products.....	9	5	48	78
OO	Machinery.....	7	1	45	45
PP	Meats and Sea-Foods.....	53	None	None	None
QQ	Metals.....	82	56	1108	2848
RR	Metal Products.....	37	13	142	147
SS	Minerals & Products (non-metallic).	65	33	1096	1770
TT	Paints, Pigments, Varnishes, Etc....	58	48	367	3796
UU	Paper and Products.....	57	49	250	693
VV	Petroleum and Products.....	22	21	171	715
WW	Pipe, Fittings, Fixtures, Etc.....	40	33	383	641
ZZ	Rubber and Rubber Goods.....	68	50	103	356
AAA	Scales.....	3	2	35	40
BBB	Suits and Uniforms.....	2	None	None	None
CCC	Textiles (yardage).....	46	20	146	302
DDD	Textile Products.....	57	21	188	445
FFF	Toilet Articles.....	2	None	None	None
GGG	Tools.....	54	39	246	393
HHH	Vegetables.....	35	None	None	None
JJJ	Vegetable Products.....	34	5	30	43
KKK	Vehicles.....	4	None	None	None
LLL	Wood Products.....	16	7	64	101
TOTAL....		1,233	666	11,855	23,228

WILLING-TO-CERTIFY SOURCES OF SUPPLY
OF
COMMODITIES COVERED BY FEDERAL SPECIFICATIONS

The earlier lists of willing to certify sources of supply of commodities covered by Federal specifications, designated as Bureau of Standards Letter Circulars LC256 and LC256a, are out of print, and copies thereof are no longer available. These two lists have been superseded by parts which will contain the earlier lists in revised form, in addition to other lists belonging to certain designated groups. Parts of Letter Circular LC256a now available and others in preparation are indicated below:

- Part 1B. Animal Products; Cable and Wire; Drugs and Medicines; Dry Goods and Notions; Electric Apparatus; Instruments; Lumber Products; Metal Products; Petroleum and Products; Pipe, Pipe-Fittings, Plumbing Fixtures, Tubes and Tubing, (metallic); Rubber and Rubber Goods; Tools; Vegetable-Products; and Wood-Products. (Nov. 1, 1937)
- Part 2. Paints, Pigments, Varnishes, and Products (including linseed oil and turpentine). (Dec. 1, 1937)
- Part 3A. Hardwood and Softwood Lumber and Timber Manufacturers, Wholesalers, and Retailers. (Aug. 1, 1938)
- Part 4A. Brooms and Brushes. (Sept. 1, 1938)
- Part 5A. Chemicals; Cleaning and Polishing Materials. (March 1, 1938)
- Part 6. Coal and Products; Coal-Tar and Products; and Insulating Materials. (June 1, 1936)
- Part 7A. Ceramics; Furniture; Glass and Glassware; and Hardware; (April 1, 1939)
- Part 8A. Office Paste; Leather; Inks; Stamp Pads; Paper and Products; Rubber and Rubber Goods; Mucilage; and Sealing Wax (July 1, 1939)
- Part 9. Instruments; Machinery; Pipe, Pipe-Fittings, Plumbing Fixtures, Tubes and Tubing (metallic); Scales and Tools. (July 1, 1936)
- Part 10. Minerals and Products, (including asphalt, brick, cement, gypsum, lime, plaster, refractories, roofing, tile, etc.) (July 15, 1936)
- Part 11. Metal and Metal-Products. (Under Revision)
- Part 12. Cordage and Textiles. (Under Revision)

Further information concerning the application of the certification plan or any other phase of the work on standardization, including the labeling plan, may be obtained from the Division of Codes and Specifications, National Bureau of Standards, Washington, D. C.

INDEX OF COMMODITY GROUPS

UNDER WHICH ARE CLASSIFIED

FEDERAL SPECIFICATIONS TO WHICH THE CERTIFICATION PLAN HAS BEEN APPLIED

GROUPS*	CLASSIFICATION	GROUPS*	CLASSIFICATION
C	ABRASIVES (SEE P) ANIMAL PRODUCTS ASPHALTIC MATERIALS (SEE SS) BANDAGES (SEE GG, DDD) BED SUPPLIES (SEE V, CCC, DDD) BELTING (SEE KK, ZZ, DDD) BITUMINOUS MATERIALS (SEE R, SS) BLUING, LAUNDRY (SEE O) BRICK (SEE HH, SS)	SS	MINERALS AND PRODUCTS (NON-METALLIC) NETTING, MOSQUITO (SEE JJ) OFFICE SUPPLIES (SEE N, DD, FF, GG, UU, DDD, GG, JJJ, LLL) OILCLOTH (SEE CCC) OILS (SEE VV, JJJ) PACKING (SEE HH) PADLOCKS (SEE FF)
H	BROOMS AND BRUSHES BUNTING (SEE CCC) BURLAP (SEE CCC)	TT	PAINTS, PIGMENTS, VARNISHES, AND PRODUCTS (SEE ALSO O, R, SS, VV, JJJ, LLL)
J	CABLE AND WIRE (INSULATED) (SEE ALSO W) CANS, ASH, GARBAGE, OIL AND FRICTION TOP (SEE RR)	UU	PAPER AND PRODUCTS (SEE ALSO P) PERCALE (SEE CCC)
	CARPETS (SEE DDD)	VV	PETROLEUM AND PRODUCTS (SEE ALSO O, Q, R, SS, TT)
	CEMENT AND CONCRETING MATERIALS (SEE QQ, SS)	WW	PILLOWS (SEE O, V, CCC) PIPE, PIPE-FITTINGS, PLUMBING FIXTURES, TUBES AND TUBING (METALLIC) (SEE ALSO FF, QQ, RR)
M	CERAMICS (SEE ALSO SS)		PLASTER AND PLASTERBOARD (SEE SS)
N	CEREALS AND PRODUCTS (SEE ALSO JJJ)		POLISHING MATERIALS (SEE P)
O	CHEESECLOTH (SEE CCC, DDD)		PUTTY (SEE TT)
P	CHEMICALS (SEE ALSO P, R, U, TT, VV, JJJ)		RAGS (SEE DDD)
Q	CLEANING AND POLISHING MATERIALS		REFRACTORIES (SEE HH, SS)
R	COAL AND PRODUCTS (SEE ALSO R, VV)		REMOVER, PAINT (SEE TT)
TT	COAL-TAR AND PRODUCTS (SEE ALSO O, Q, TT)		RIBBONS, TYPEWRITER, ETC. (SEE DDD)
	CORDAGE, TWINE AND PRODUCTS		ROAD AND PAVING MATERIALS (SEE R, SS, VV)
	CORK (SEE HH, LLL)		ROOFING, BITUMINOUS AND WATERPROOFING (SEE R, HH, SS)
	COTTON AND COTTON GAUZE (SEE CCC, JJJ)	ZZ	ROPE (SEE T, RR)
	CYLINDERS, STEEL (SEE RR)		RUBBER AND RUBBER GOODS (SEE ALSO J)
	DENIM (SEE CCC)		RUGS (SEE DDD)
U	DENTAL SUPPLIES (SEE U)		RULERS AND RULES (SEE GG, GGG)
V	DRUGS AND MEDICINES (SEE ALSO O)	AAA	SAFES (SEE AA)
	DRY GOODS AND NOTIONS (SEE ALSO JJ, CCC, DDD)		SCALES (SEE ALSO W, GG, OO, GGG)
	DUCK (SEE CCC)		SCREWS (SEE FF)
	DUST PANS (SEE RR)		SHADES AND SHADE CLOTH (SEE CCC, DDD)
W	ELECTRIC APPARATUS (ELECTRICAL SUPPLIES SEE ALSO J, HH, WW, ZZ)		SHELLAC (SEE TT)
	FIRE EXTINGUISHERS AND LIQUID (SEE O)		SHIELDS, WELDING (SEE GGG)
	FLOOR COVERING (SEE ZZ, DDD, LLL)		SOAPS AND SCOURING COMPOUNDS (SEE P)
AA	FUMIGANTS (SEE O)		SURGICAL SUPPLIES (SEE C, GG, DDD)
	FURNITURE (SEE ALSO MM, QQ, RR, LLL)		TABLECLOTHS (SEE DDD)
	GASKETS (SEE HH)		TABLEWARE (SEE M, DD, RR)
DD	GAUZE, COTTON (SEE CCC, DDD)		TAGS, SHIPPING (SEE UU)
	GLASS AND GLASSWARE (SEE ALSO M, SS)		TARS (SEE R)
	GRATINGS, STEEL, FLOOR (SEE RR)	CCC	TEXTILES (YARDAGE) (SEE ALSO JJ, DDD)
FF	HANDLES, TOOL AND MOP (SEE NN)	DDD	TEXTILE PRODUCTS (SEE ALSO T, JJ, CCC)
	HARDWARE (SEE ALSO QQ, RR, GGG)		THINNER, PAINT (SEE TT)
	HEAT INSULATING MATERIALS (SEE HH, SS, LLL)		TILE (SEE RR, SS, ZZ, LLL)
	HELMETS, WELDING AND SANDBLASTING (SEE GGG)		TIMBER (SEE MM)
	INKS (SEE TT)		TIRES AND TUBES (SEE ZZ)
GG	INSECTICIDES (SEE O)	GGG	TOOLS (SEE ALSO FF, GG, OO, QQ, RR)
HH	INSTRUMENTS (SEE ALSO W, OO, AAA, GGG)		TOWELS (SEE UU, DDD)
JJ	INSULATING MATERIALS (SEE ALSO C, LLL)		TREADS, SAFETY (SEE RR)
KK	KNIT GOODS, NETTING AND WEBBING		TUBES AND TUBING (SEE WW)
	LEATHER AND LEATHER GOODS		TURPENTINE (SEE LLL)
	LAUNDRY APPLIANCES (SEE OO, WW)		TWINE (SEE T)
	LIME (SEE SS)		UNIONS (SEE WW)
	LINOLEUM (SEE LLL)		VARNISH (SEE TT)
	LINSEED OIL (SEE JJJ)	JJJ	VEGETABLE PRODUCTS (SEE ALSO N)
MM	LIQUID MEASURING DEVICES (SEE GG)		WALL-BOARD, (SEE SS, UU)
NN	LUMBER AND TIMBER (SEE ALSO AA, NN, LLL)		WASTE (SEE DDD)
OO	LUMBER PRODUCTS (SEE ALSO AA, MM, LLL)		WIRE AND WIRE ROPE (SEE J, RR)
	MACHINERY (SEE ALSO GG)		WIRE CLOTH (SEE RR)
	MATTRESSES (SEE V, CCC)		WIREWARE, BAKESHOP AND KITCHEN (SEE RR)
QQ	MEDICINES (SEE U)	LLL	WOOD PRODUCTS (SEE ALSO AA, MM, NN)
RR	METALS (SEE ALSO AA, FF, RR, WW, GGG)		
	METAL PRODUCTS (SEE ALSO AA, FF, GG, QQ, GGG)		

* SUBJECTS OPPOSITE WHICH LETTERS APPEAR IN THE LEFT-HAND MARGIN REPRESENT THOSE CLASSIFICATIONS UNDER WHICH ARE GROUPED FEDERAL SPECIFICATIONS TO WHICH THE CERTIFICATION PLAN HAS BEEN APPLIED. OTHER SUBJECTS LISTED ARE CROSS-REFERENCES TO THESE CLASSIFICATIONS.

CLASSIFIED INDEX OF FEDERAL SPECIFICATIONS TO WHICH
THE CERTIFICATION PLAN HAS BEEN APPLIED.

JUNE - 1939

NOTE: A complete index of Federal specifications known as Federal Standard Stock Catalog, Section IV, Part 1, is obtainable from the Supt. of Documents, Government Printing Office, Washington, D. C. at 15 cents a copy. Copies of all printed Federal specifications are available from the same source at 5 cents a copy unless otherwise stated.

TITLE	Specification Symbol
<u>ANIMAL PRODUCTS (GROUP C)</u>	
Felt; hair.....	C-F-201a
Glue; animal (for) woodworking.....	C-G-451
Hair; horse, curled.....	C-H-111
Ligatures; catgut, boilable.....	C-L-351
<u>BROOMS AND BRUSHES (GROUP H)</u>	
Brooms; corn.....	H-B-51
Brooms; fiber.....	H-B-56
Brooms; metal-case.....	H-B-61a
Brooms; rattan, push.....	H-B-71
Brooms; rattan, upright.....	H-B-75
Brooms; scrubbing.....	H-B-91
Brooms; whisk.....	H-B-101
Brooms; wire, push.....	H-B-111
Brushes; blacking and dauber.....	H-B-131
Brushes; calcimine.....	H-B-141
Brushes; casting.....	H-B-151
Brushes; cuspidor.....	H-B-171
Brushes; dauber, long-paddle.....	H-B-181
Brushes, dust; ceiling, and wall.....	H-B-191
Brushes, dust; counter.....	H-B-201
Brushes, dust; painters', flat.....	H-B-211
Brushes, dust; painters', round.....	H-B-216
Brushes, dust; radiator.....	H-B-221
Brushes, fitch; flat.....	H-B-241
Brushes; flowing, badger-hair.....	H-B-251
Brushes; flowing, skunk-hair.....	H-B-256
Brushes; flowing, squirrel-tail-hair.....	H-B-261
Brushes; garage, fiber.....	H-B-271
Brushes; glue, flat.....	H-B-291
Brushes; glue, round.....	H-B-301
Brushes; hair, military.....	H-B-321
Brushes, lacquering; flat.....	H-B-351
Brushes; marking.....	H-B-371
Brushes; mottling.....	H-B-391

TITLE

BROOMS AND BRUSHES (GROUP H) Continued

Brushes, paint; metal-bound, flat (high-grade).....	H-B-421
Brushes, paint; metal-bound, flat (medium-grade).....	H-B-431
Brushes, radiator; bronzing.....	H-B-451
Brushes, roof; knotted style three knots.....	H-B-471
Brushes, sash-tool; oval.....	H-B-491
Brushes, scrubbing; clothes.....	H-B-521
Brushes, scrubbing; deck.....	H-B-531
Brushes, scrubbing; floor, hand.....	H-B-541
Brushes, scrubbing; hand, white tampico.....	H-B-551
Brushes; shaving.....	H-B-571
Brushes; sidewalk.....	H-B-591
Brushes; stencil (flag ends cut).....	H-B-621
Brushes; stencil (flag ends preserved).....	H-B-626
Brushes, stippling; wall.....	H-B-636
Brushes, sweeping; floor, hair.....	H-B-651
Brushes; tooth.....	H-B-671
Brushes; typewriter.....	H-B-681
Brushes, varnish, flat (double X thickness).....	H-B-701
Brushes, varnish; flat (triple X thickness).....	H-B-706
Brushes; whitewash.....	H-B-731
Brushes; window.....	H-B-751

CABLE AND WIRE (insulated) (GROUP J)

Cable (armored and lead-covered armored) and Cord (armored) (600-Volt service and under).....	J-C-71
Cable and Wire; rubber-insulated, building-type "code" grade.....	J-C-101a
Cable and Wire; rubber-insulated, building-type, superaging-grade (0 to 5000-volt service).....	J-C-106
Cable and Wire; rubber-insulated (for) other than building purposes, superaging grade (0 to 8000-volt service).....	J-C-121

CERAMICS (GROUP M)

Chinaware; vitrified.....	M-C-361(10)
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CEREALS AND PRODUCTS (GROUP N)

Paste, office; Paste-brushes and spreaders.....	N-P-101b
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CHEMICALS (GROUP O)

Acetone.....	O-A-51a
Acid; sulphuric, (for) storage-batteries.....	O-A-111
Ammonia, aqua (ammonium-hydroxide), technical.....	O-A-451
Ammonium-Chloride; (sal ammoniac).....	O-A-491
Bluing; laundry.....	O-B-491
Eosin Y (Color Index No. 768).....	O-E-571
Fire-Extinguishers; chemical, hand, carbon-tetrachloride type.....	O-F-351
Fire-Extinguishers; chemical, hand, soda and acid type.....	O-F-355a
Fire-Extinguishing-Liquid; carbon-tetrachloride base.....	O-F-380

CHEMICALS (GROUP O) continued

Glycerin (glycerol).....	O-G-491
Mono- Methyl-Paraminophenol-Sulfate.....	O-M-571
Powder; insect (pyrethrum-powder).....	O-P-571
Salts; nickel (for) electroplating and electrotyping.....	O-S-61
Soda-Ash.....	O-S-571
Sodium-Carbonate; granular (mono-hydrate crystals).....	O-S-581
Sodium-Cyanide; (for use as an insecticide in fumigation).....	O-S-591
Sodium-Fluoride; (insecticide).....	O-S-601
Sodium-Sulphite; anhydrous (for) photography.....	O-S-606
Trisodium-Phosphate; technical (phosphate cleaner).....	O-T-671

CLEANING AND POLISHING MATERIALS (GROUP P)

Cloth; abrasive, aluminum-oxide.....	P-C-451
Compound; sweeping.....	P-C-591
Detergent, hand; paste and powder (for) mechanics' use.....	P-D-221
Paper; abrasive, artificial, waterproof.....	P-P-101
Paper; flint.....	P-P-111
Paper; garnet.....	P-P-121
Paper; garnet, waterproof.....	P-P-126
Polish; metal, paste.....	P-P-556
Polish; silver.....	P-P-571a
Polish; stove.....	P-P-576
Powder; scouring (for) floors.....	P-P-591
Powder; scouring (for) highly-polished glass.....	P-P-596
Soap; chip.....	P-S-566
Soap; grit, cake.....	P-S-571
Soap; grit, hand.....	P-S-576
Soap; laundry, liquid.....	P-S-586
Soap; laundry, ordinary.....	P-S-591
Soap; laundry, powdered.....	P-S-596
Soap- Powder.....	P-S-606
Soap-salt-water.....	P-S-611
Soap; soft, (for) automobile and general cleaning.....	P-S-612
Soap; toilet, floating; white.....	P-S-616
Soap; toilet, liquid.....	P-S-618
Soap; toilet, milled.....	P-S-621
Soap; toilet, powdered (for) dispensers.....	P-S-626
Soda; caustic (lye); (for) cleaning purposes.....	P-S-631
Soda; Laundry (washing soda).....	P-S-641
Solvent; dry cleaning.....	P-S-661a

COAL AND PRODUCTS (GROUP Q)

Coke; foundry.....	Q-C-571a
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TITLE

Specification
Symbol

COAL-TAR AND PRODUCTS (GROUP R)

Pitch; coal-tar (for) mineral-surfaced built-up roofing, waterproofing and dampproofing.....	R-P-381
Tar; cold-application (for) roads.....	R-T-101
Tar; (for) joint filler.....	R-T-111
Tar; refined, construction (for) roads.....	R-T-121
Tar; refined (for) crack filler.....	R-T-126
Tar; refined, hot-application (for) roads.....	R-T-131
Tar; repair-work (for) roads.....	R-T-141

CORDAGE, TWINE, AND PRODUCTS (GROUP T)

Cord; sash, cotton, braided.....	T-C-571a
Cordage; hemp, tarred.....	T-C-621
Rope; cotton.....	T-R-571
Rope; manila.....	T-R-601a
Twine; cotton, wrapping.....	T-T-871
Twine; cotton, seine.....	T-T-881a
Twine; hemp.....	T-T-901a
Twine; jute.....	T-T-911

DRUGS AND MEDICINES (GROUP U)

Alloy; dental, amalgam.....	U-A-451a
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DRY GOODS AND NOTIONS (GROUP V)

Buttons.....	V-B-871
Mattresses; cotton, felted.....	V-M-81
Mattresses; inner-spring.....	V-M-96
Pillows; feather.....	V-P-356

ELECTRIC-APPARATUS (GROUP W)

Bases; cut-out (for) enclosed-cartridge, open-link and plug-fuses.....	W-B-81a
Batteries and Cells; dry.....	W-B-101a
Flashlights; electric, hand (without batteries).....	W-F-421
Fuses; cartridge, enclosed, renewable (fusible links not separately enclosed).....	W-F-803
Fuses; cartridge, enclosed, renewable (fusible links separately enclosed).....	W-F-805
Fuses; plug, nonrenewable.....	W-F-831
Lamps; electric, incandescent, large, tungsten-filament.....	W-L-101c
Panelboards; equipped with automatic-circuit-breakers.....	W-P-131
Receptacles (convenience-outlets); attachment plugs, current-taps and connectors.....	W-R-151
Switches; knife, open-type, front and rear connected.....	W-S-871
Switches; snap, multiple-type and combination-devices, flush-type, with wall-plates.....	W-S-893
Switches; snap, single-unit, interchangeable, flush-type, with wall-plates.....	W-S-896

TITLE

Specification
Symbol

FURNITURE (GROUP AA)

Beds; hospital.....	AA-B-201
Beds; hospital (adjustable spring bottom).....	AA-B-211a
Cabinets; stationery; storage, and clothing (steel).....	AA-C-31
Cases; transfer, steel.....	AA-C-121
Chairs; bent-wood.....	AA-C-281
Chairs; folding, metal.....	AA-C-291
Chairs; office, wood.....	AA-C-311 (10¢)
Costumers; wood.....	AA-C-556
Cots; folding, canvas.....	AA-C-571a
Desks; steel.....	AA-D-191
Desks; wood.....	AA-D-201
Furniture and Cabinets; office, sectional, steel.....	AA-F-791b (10¢)
Furniture and Cabinets; office, sectional, wood.....	AA-F-801
Lockers; clothes, steel.....	AA-L-486
Safes; burglar-resisting.....	AA-S-71
Safes; insulated.....	AA-S-81
Settees; wood.....	AA-S-256
Shelving; steel, storage.....	AA-S-271
Stands; dictionary.....	AA-S-671
Stools; wood.....	AA-S-701 (10¢)
Tables; office, steel.....	AA-T-91
Tables; and typewriter-stands, wood.....	AA-T-101
Wardrobes; wood.....	AA-W-131

GLASS AND GLASSWARE (GROUP DD)

Bottles; prescription.....	DD-B-591
Chimneys and Globes (lamp and lantern); glass.....	DD-C-311
Cups; pin and sponge.....	DD-C-791
Droppers; medicine.....	DD-D-691
Glass; flat (for) glazing purposes.....	DD-G-451
Glasses; medicine.....	DD-G-616
Tableware; glass.....	DD-T-101a
Urinals; glass, male, graduated.....	DD-U-686
Volumetric-Apparatus; glass.....	DD-V-581

HARDWARE (GROUP FF)

Bolts, lag; steel (lag-screws).....	FF-B-561
Bolts; Nuts; Studs; and Tap-Rivets (and material) for same.....	FF-B-571a
Casters; metal-chair.....	FF-C-81
Casters; truck.....	FF-C-86
Casters; wood-chair.....	FF-C-91a
Clips; paper, wire.....	FF-C-436
Dispensers; soap.....	FF-D-396
Fasteners; paper, brass.....	FF-F-101
Hardware, builders'; lock and lock-trim.....	FF-H-106
Hardware, builders'; shelf and miscellaneous.....	FF-H-111 (10¢)
Hardware, builders'; hinges.....	FF-H-116a(10¢)
Hardware, builders'; door-closers.....	FF-H-121a
Hardware and Fittings; (for) lavatory partitions and inclosures.....	FF-H-136
Nails; Spikes; Staples; and Tacks.....	FF-N-101 (10¢)
Padlocks.....	FF-P-101a
Pins; cotter, split.....	FF-P-386
Pins; office.....	FF-P-401
Screws, machine; (including Screws, set).....	FF-S-91
Screws; wood.....	FF-S-111
Thumbtacks.....	FF-T-311
Turnbuckles.....	FF-T-791
Wool; steel.....	FF-W-556

INSTRUMENTS (GROUP GG)

Bandages; plaster-of-Paris.....	GG-B-101
Calendar-Pads and Stands.....	GG-C-101
Erasers; steel.....	GG-E-671
Instruments; drawing (first-grade, in sets).....	GG-I-531
Machines; numbering, lever-type.....	GG-M-71
Measuring-Devices; liquid (retail type).....	GG-M-191
Rulers; desk.....	GG-R-791
Straightedges; steel.....	GG-S-776
Thermometers; clinical.....	GG-T-311
Thermometers; industrial.....	GG-T-321
Triangles; pyroxylin.....	GG-T-671
T-Squares.....	GG-T-711

INSULATING MATERIALS (GROUP HH)

Brick; fire-clay.....	HH-B-671b
Brick; silica.....	HH-B-681
Clay; fire.....	HH-C-451a
Cork; compressed (corkboard).....	HH-C-561
Cork; granulated, insulating.....	HH-C-571a

TILE

Specification
SymbolINSULATING MATERIALS (GROUP HH) continued

Cotton-Fabric; woven, asphalt-saturated.....	HH-C-581a
Felt; asphalt-saturated (for) flashings, roofing and waterproofing.....	HH-F-191
Felt; coal-tar-saturated (for) roofing and waterproofing.....	HH-F-201
Gaskets; asbestos-copper, corrugated.....	HH-G-71
Gaskets; asbestos, metallic-cloth.....	HH-G-76
Gaskets; metallic-encased.....	HH-G-101
Gaskets; rubber, molded, sheet, and strip.....	HH-G-156
Linings; brake-band.....	HH-L-361
Magnesia; block, cement, and pipe-covering (molded).....	HH-M-61
Millboard; asbestos.....	HH-M-351
Packing; asbestos, metallic-cloth, sheet.....	HH-P-31
Packing; asbestos, rod, high-pressure.....	HH-P-36
Packing; asbestos, rope and wick.....	HH-P-41
Packing; asbestos, sheet, compressed.....	HH-P-46
Packing; asbestos, valve-stem.....	HH-P-51
Packing; diaphragm.....	HH-P-61a
Packing; fabric, condenser-tube.....	HH-P-71
Packing; fiber, hard, sheet.....	HH-P-91
Packing; fiber (for) lubricating and fuel-oil.....	HH-P-96a
Packing; flax.....	HH-P-106
Packing; hydraulic.....	HH-P-112
Packing; metallic, flexible.....	HH-P-126a
Packing; metallic, and non-metallic, plastic.....	HH-P-131a
Packing; rubber, cloth-insertion.....	HH-P-151a
Packing; rubber, wire-insertion.....	HH-P-161a
Packing; semimetallic.....	HH-P-166
Packing; spiral, gland, low-pressure.....	HH-P-171
Refractories; fire-clay, plastic.....	HH-R-191
Tape; friction.....	HH-T-101
Tape; rubber, insulating.....	HH-T-111
Tubing, flexible, nonmetallic.....	HH-T-791

KNIT GOODS, NETTING, AND WEBBING (GROUP JJ)

Netting; mosquito (unbleached-bobbinet).....	JJ-N-191
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TITLE

Specification
Symbol

LEATHER AND LEATHER-GOODS (GROUP KK)

Aprons; leather, blacksmiths'.....KK-A-606
 Bags; hand, leather.....KK-E-50
 Belts; lineman's, safety, leather.....KK-B-151 (10¢)
 Belting; flat, leather (vegetable-tanned).....KK-B-201
 Cases; brief, leather.....KK-C-121
 Envelopes; leather.....KK-E-561
 Holsters; pistol, leather.....KK-H-566
 Leather; artificial (upholstery).....KK-L-136
 Leather; bag.....KK-L-151a
 Leather; case.....KK-L-166
 Leather; harness, black and russet.....KK-L-171
 Leather; hydraulic-packing (vegetable-tanned).....KK-L-181
 Leather; lace.....KK-L-201
 Leather; rigging.....KK-L-241
 Leather; sole, vegetable-tanned.....KK-L-261a
 Leather; strap, black and russet.....KK-L-271
 Leather; upholstery.....KK-L-291
 Skins; chamois.....KK-S-416
 Welting; leather, shoe.....KK-W-231

LUMBER AND TIMBER (GROUP MM)

Lumber and Timber; hardwood.....MM-L-736
 Lumber and Timber; softwood.....MM-L-751a

LUMBER PRODUCTS (GROUP NN)

Handles; ash (for) tools.....NN-H-81
 Handles; hickory, long (for) tools.....NN-H-91
 Handles; hickory (for) small-tools.....NN-H-96
 Handles; mop.....NN-H-101
 Handles; wood, miscellaneous (for) tools.....NN-H-106

MACHINERY (GROUP OO)

Laundry-Appliances.....OO-L-131b (10¢)

TITLE	Specification Symbol
<u>METALS (GROUP QQ)</u>	
Aluminum-Alloy (aluminum-manganese); bars, rods, shapes, and wire.....	QQ-A-356a
Aluminum-Alloy; ingots.....	QQ-A-371
Aluminum; ingots.....	QQ-A-451
Bars; reinforcement, (for) concrete.....	QQ-B-71a
Bases, metal; (for) plaster and stucco construction.....	QQ-B-101c
Brass; castings (to be brazed).....	QQ-B-601
Brass, commercial; bars, plates, rods, shapes, sheets, and strips.....	QQ-B-611a
Brass, commercial and naval; castings.....	QQ-B-621
Brass, naval; bars, plates, rods, shapes, sheets, and : strips.....	QQ-B-636
Bronze, aluminum; bars, plates, rods, shapes, sheets and strips.....	QQ-B-666
Bronze, aluminum; castings.....	QQ-B-671
Bronze; castings.....	QQ-B-691a
Bronze; ingots.....	QQ-B-701
Bronze, manganese; bars, forgings, plates, rods, and shapes.....	QQ-B-721a
Bronze, manganese; castings.....	QQ-B-726a
Bronze, manganese; ingots (for remelting).....	QQ-B-731a
Bronze, phosphor; bars, plates, rods, shapes, sheets, and strips.....	QQ-B-746
Copper; bars, plates, rods, shapes, sheets, and strips.....	QQ-C-501
Copper; ingots.....	QQ-C-521a
Copper-Nickel-Alloy; bars, plates, rods, shapes, sheets, strips, tubing, (seamless) and wire.....	QQ-C-541
Copper-Nickel-Alloy; castings.....	QQ-C-551
Copper; phosphor.....	QQ-C-571
Copper; silicon.....	QQ-C-581
Copper-Silicon-Alloy; castings.....	QQ-C-593
Culverts; iron or steel, zinc-coated.....	QQ-C-806
Ferrochromium.....	QQ-F-151
Ferromanganese.....	QQ-F-161
Ferrosilicon.....	QQ-F-181
Ferrotitanium.....	QQ-F-191a
Iron, gray; castings.....	QQ-I-651
Iron, gray, high test (semisteel); castings.....	QQ-I-656

METALS (GROUP QQ) continued

Iron, malleable; castings.....	QQ-I-666
Iron; pig, foundry.....	QQ-I-676
Iron, wrought (refined); bar.....	QQ-I-686a
Iron and Steel; sheet, black and zinc-coated (galvanized).....	QQ-I-696
Lead; caking.....	QQ-L-156
Lead; pig.....	QQ-L-171
Lead; sheet.....	QQ-L-201
Manganese; ore.....	QQ-M-71
Metal, antifriction; castings and ingots.....	QQ-M-161
Nickel; (for) remelting.....	QQ-N-301
Nickel-Silver (German-Silver); bars, plates, rods, shapes sheets, and strips.....	QQ-N-321
Rods; welding, nonferrous (for) gas welding.....	QQ-R-571
Solder; brazing.....	QQ-S-551
Solder; silver.....	QQ-S-561b
Solder; tin-lead.....	QQ-S-571
Steel; castings.....	QQ-S-681a
Steel; plates (marine-boiler).....	QQ-S-691
Steel; staybolt (boiler).....	QQ-S-701
Steel; structural (including steel for cold-flanging) and Steel, rivet; (for) ships other than naval vessels.....	QQ-S-751a
Tin; phosphor.....	QQ-T-351
Tin; pig.....	QQ-T-371
Wire; brass.....	QQ-W-321
Wire; phosphor-bronze, spring.....	QQ-W-401
Zinc; plates, sheets, and strips.....	QQ-Z-301a
Zinc; slab (spelter).....	QQ-Z-351

METAL PRODUCTS (GROUP RR)

Barrels; steel, type 5.....	RR-B-116
Cans, corrugated; ash and garbage.....	RR-C-81
Cloth; wire, screen.....	RR-C-451a
Cylinders; steel, seamless, type 3A (for compressed gases).....	RR-C-901
Fencing; wire (barbed, netting, and woven) black and galvanized	RR-F-221
Gratings; steel, floor (except for naval vessels).....	RR-G-661a
Pans; dust.....	RR-P-76
Receptacles; waste-paper, metal, office and lobby.....	RR-R-191
Rope; wire.....	RR-R-571 (10¢)
Tableware; corrosion-resisting steel.....	RR-T-41a
Tableware; silver-plated.....	RR-T-51a
Treads; safety, metallic.....	RR-T-661
Wireware; bake-shop and kitchen.....	RR-W-456

MINERALS AND PRODUCTS (non-metallic) (GROUP SS)

Asphalt; (for) built-up roofing, waterproofing, and damp- proofing.....	SS-A-666
Asphalt; emulsion (for) road work.....	SS-A-674

TITLE

Specification
SymbolMINERALS AND PRODUCTS (non-metallic) (GROUP SS) continued

Asphalt; petroleum, type PAF-1-25 (for) joint-filler (squeegee or pouring method).....	SS-A-696
Asphalt-Primer; (for) roofing and waterproofing.....	SS-A-701
Asphalt; (for use in) road and pavement construction.....	SS-A-706
Brick; building (common), clay.....	SS-B-656
Brick; concrete.....	SS-B-663
Brick; paving.....	SS-B-671a
Brick; sand-lime.....	SS-B-681
Brick; sewer, clay.....	SS-B-691
Cement; bituminous, plastic.....	SS-C-153
Cement; Keene's.....	SS-C-161
Cement; masonry.....	SS-C-181b
Cement; Portland.....	SS-C-191a
Concrete-Units; masonry, hollow.....	SS-C-621
Facings; foundry, carbon-base.....	SS-F-111
Gypsum; calcined.....	SS-G-901
Lime; hydrated (for) structural purposes.....	SS-L-351
Pipe; concrete, non-pressure, non-reinforced and reinforced....	SS-P-371
Plaster; gypsum.....	SS-P-401
Plaster Board; gypsum.....	SS-P-431a
Quicklime; (for) structural purposes.....	SS-Q-351
Roof-Coating; asphalt, brushing consistency.....	SS-R-451
Roofing; asphalt, prepared, smooth-surfaced.....	SS-R-501
Roofing; asphalt and asbestos-prepared, mineral-surfaced.....	SS-R-511
Roofing and Shingles; asphalt, prepared, mineral-surfaced.....	SS-R-521
Salt; table.....	SS-S-31
Slate; roofing.....	SS-S-451
Stone; architectural, cast.....	SS-S-721
Tile; structural, clay, floor.....	SS-T-321
Tile; structural, clay, load-bearing wall.....	SS-T-341
Tile; structural, clay, non-load-bearing.....	SS-T-351
Wall-Board; gypsum.....	SS-W-51a

PAINTS, PIGMENTS, VARNISHES AND PRODUCTS (GROUP TT)

Aluminum-Powder; (for) paints (aluminum-bronze-powder).....	TT-A-476
Blue-Lead; basic-sulphate, dry and paste-in-oil.....	TT-B-486
Boneblack; dry, paste-in-japan, paste-in-oil.....	TT-B-601
Chrome, green; oxide.....	TT-C-231
Chrome, green; pure, dry, paste-in-japan, paste-in-oil.....	TT-C-236
Chrome, yellow; dry, paste-in-japan, paste-in-oil (lemon, medium, orange).....	TT-C-291
Drier; paint, liquid.....	TT-D-651
Enamel; interior, gloss, light-tints and white.....	TT-E-506a
Enamel; pigmented (air-drying and baking), black.....	TT-E-521
Enamel; water-resisting, red.....	TT-E-531a
Filler; wood, paste.....	TT-F-336
Ink; copying and record.....	TT-I-521
Ink; drawing, waterproof, black.....	TT-I-528

TITLE

PAINTS, PIGMENTS, VARNISHES AND PRODUCTS (GROUP TT) Continued

Ink; drawing, waterproof; colored.....	TT-I-531
Ink; marking, indelible (for) fabrics.....	TT-I-542
Ink; red.....	TT-I-549
Ink; stamp-pad.....	TT-I-556
Ink; writing.....	TT-I-563
Lampblack; dry, paste-in-japan, paste-in-oil.....	TT-L-71
Ocher; dry, paste-in-japan, paste-in-oil.....	TT-O-111
Pads; stamp.....	TT-P-16
Paint; cold-water, casein-binder, light-tints and white.....	TT-P-23
Paints; iron-hydroxide and iron-oxide, ready-mixed and semi- paste.....	TT-P-31
Paints; lead-zinc base, ready-mixed and semipaste, white and tinted.....	TT-P-36a
Paints; oil, interior, eggshell-flat-finish, ready-mixed and semipaste, light-tints and white.....	TT-P-51a
Paint; outside, ready-mixed, medium-chrome-yellow.....	TT-P-53
Paint; (for) priming plaster-surfaces (plaster-primer and sealer).....	TT-P-56
Paints; ready-mixed and semipaste, black.....	TT-P-61
Paints; ready-mixed and semipaste, green.....	TT-P-71
Paints; ready-mixed and semipaste, olive-drab.....	TT-P-81
Paints; titanium-zinc, and titanium-zinc-lead, outside, ready- mixed, white.....	TT-P-101a
Prussian-Blue; dry, paste-in-japan, paste-in-oil.....	TT-P-691
Putty; pure-linseed-oil, (for) wood-sash glazing.....	TT-P-791a
Red-Lead; dry and paste-in-oil.....	TT-R-191a
Remover; paint and varnish (organic-solvent-type).....	TT-R-251
Shellac; orange.....	TT-S-271
Thinner; paint (for) semipaste paints.....	TT-T-271
Thinner; paint, volatile mineral spirits.....	TT-T-291
Ultramarine Blue; dry, paste-in-japan, paste-in-oil.....	TT-U-451
Varnish; asphalt.....	TT-V-51
Varnish; interior.....	TT-V-71
Varnish; mixing (for) aluminum-paint.....	TT-V-81
Varnish; shellac.....	TT-V-91
Varnish; spar, water-resisting.....	TT-V-121a
White-Lead; basic-carbonate, dry, paste-in-oil, and semipaste containing volatile-thinner.....	TT-W-251a
White-Lead; basic-sulphate; dry and paste-in-oil.....	TT-W-261a
Zinc-Oxide; dry and paste-in-oil.....	TT-Z-301
Zinc-Oxide; leaded, dry and paste-in-oil.....	TT-Z-321

PAPER AND PRODUCTS (GROUP UU)

Bags; paper, kraft, grocers'.....	UU-B-36
Bands; paper, shirt, laundry.....	UU-B-71
Board; bristol.....	UU-B-561
Board; illustrating.....	UU-B-591
Boxes; cardboard, laundry.....	UU-B-651
Cards; guide (card-size).....	UU-C-76
Cards; guide, calendered (file-size).....	UU-C-86
Cards; guide, pressboard, (file-size).....	UU-C-96a

TITLE

Specification
SymbolPAPER AND PRODUCTS (GROUP UU) continued

Cards; index, 50% rag.....	UU-C-111
Cards; index, 100% rag (for) permanent-records.....	UU-C-116
Cards; index, chemical-wood.....	UU-C-126
Cardboard; bristol, manila, and railroad.....	UU-C-201
Cups; paper.....	UU-C-806a
Folders; file (calendered), vertical.....	UU-F-571a
Folders; file, pressboard.....	UU-F-581a
Napkins, table, paper.....	UU-N-106
Pads; memorandum.....	UU-P-21
Paper; blotting.....	UU-P-63
Paper; blue-print (sensitized and unsensitized).....	UU-P-79
Paper; bond, white and colored.....	UU-P-121b
Paper; brownprint, (sensitized, and sensitized and transparentized.....	UU-P-141a
Paper; carbon, light-weight (typewriter), black.....	UU-P-151a
Paper; carbon, standard-weight (typewriter), black.....	UU-P-156a
Paper; chart, 100% rag, lithograph-finish, white.....	UU-P-171
Paper; computing-machine.....	UU-P-185
Paper; cross-section, printed, drawing and tracing.....	UU-P-201
Paper; cross-section, ruled.....	UU-P-203
Paper; detail-drawing.....	UU-P-216
Paper; drawing.....	UU-P-226
Paper; index.....	UU-P-258
Paper; kraft, wrapping.....	UU-P-268a
Paper; kraft, wrapping, paraffined.....	UU-P-270
Paper; kraft, wrapping, waterproofed.....	UU-P-271
Paper; ledger.....	UU-P-288
Paper; manifold.....	UU-P-328a
Paper; mimeograph.....	UU-P-388a
Paper; photographic, blotting, white.....	UU-P-417
Paper; printing, book, machine-finish.....	UU-P-465
Paper; sheathing, waterproof.....	UU-P-536
Paper; stencil, board.....	UU-P-543
Paper; teletype, roll and tape.....	UU-P-547a
Paper; toilet, tissue, roll (round and oval) and sheet.....	UU-P-556b
Paper; tracing.....	UU-P-561b
Paper; writing.....	UU-P-641
Tags; shipping and stock.....	UU-T-81b
Tape; paper, gummed, (kraft).....	UU-T-111
Towels, paper.....	UU-T-591
Wall-Board; composition.....	UU-W-101a

TITLE

Specification
Symbol

PETROLEUM AND PRODUCTS (GROUP VV)

Gasoline; motor, U. S. Government.....	VV-C-101a
Grease; lubricating, crank-pin and rod-cup.....	VV-G-651
Grease; lubricating, driving-journal.....	VV-G-661
Grease; lubricating, graphite.....	VV-G-671
Grease; lubricating, mineral.....	VV-G-681
Kerosine.....	VV-K-211
Lubricant; chain and wire rope.....	VV-L-751
Motor-Fuel V.....	VV-M-571a
Oil; butting, mineral-lard.....	VV-O-251
Oil; cutting, soluble.....	VV-O-261
Oil; illuminating, long-time-burning.....	VV-O-381
Oil; illuminating, 300° mineral seal.....	VV-O-391
Oil; lubricating, class D (for internal combustion engines other than Aircraft and Diesel).....	VV-O-496
Oil; lubricating, Diesel-engine.....	VV-O-511
Oil; lubricating, marine-engine, compounded.....	VV-O-541
Oil; lubricating, marine-engine, mineral.....	VV-O-551
Oil; lubricating, refrigerating-machine.....	VV-O-581
Oil; lubricating, steam-cylinder, compounded.....	VV-O-601
Oil; lubricating, steam-cylinder, mineral.....	VV-O-611
Oil; lubricating, turbine, dynamo, and high-speed steam- engine.....	VV-O-661
Oil; road, type OH-1-25, hot application.....	VV-O-751

PIPE, PIPE-FITTINGS, PLUMBING-FIXTURES,
TUBES, AND TUBING (metallic) (GROUP WW)

Conduit; steel, rigid, enameled.....	WW-C-571
Conduit; steel, rigid, zinc-coated.....	WW-C-581a
Couplings; hose, cotton, rubber-lined, and linen, unlined...	WW-C-621
Couplings; hose, garden and water.....	WW-C-623a
Couplings; hose, oil-suction and discharge.....	WW-C-626
Couplings; hose, pneumatic and spray (for working pressures up to 150 pounds per square inch).....	WW-C-631
Couplings; hose, steam.....	WW-C-636
Couplings; hose, water-suction.....	WW-C-646
Nipples, pipe; brass, steel, and wrought iron.....	WW-N-351
Pipe; brass, seamless, iron-pipe-size, standard and extra- strong.....	WW-P-351
Pipe; copper, seamless, iron-pipe-size, standard.....	WW-P-377
Pipe and Pipe-Fittings; soil, cast-iron.....	WW-P-401

TITLE

Specification
SymbolPIPE, PIPE-FITTINGS, PLUMBING-FIXTURES,
TUBES, AND TUBING (metallic) (GROUP WW) - continued

Pipe; steel, seamless and welded, black and zinc-coated.....	WW-P-403
Pipe; water, cast-iron (bell and spigot, and bolted joint).....	WW-P-421
Pipe; wrought-iron, welded, black and galvanized.....	WW-P-441
Pipe-Fittings; brass or bronze (threaded), 125-pound.....	WW-P-448 (10)
Pipe-Fittings; bronze (threaded), 250-pound.....	WW-P-461
Pipe-Fittings; cast-iron (threaded).....	WW-P-501
Pipe-Fittings; malleable-iron (threaded), 150-pounds.....	WW-P-521
Plumbing-Fixtures; (for) shore purposes.....	WW-P-541 (10)
Traps; radiator, thermostatic, brass or bronze, low-pressure, 100 square-foot-size (for land use).....	WW-T-696
Tubes; boiler, steel.....	WW-T-731a
Tubes; condenser and ferrule-stock, Admiralty-metal.....	WW-T-756
Tubing; aluminum, round, seamless.....	WW-T-783
Tubing; aluminum-alloy (aluminum-copper, magnesium-manganese), round, seamless.....	WW-T-786
Tubing; aluminum-alloy (aluminum-manganese), round, seamless.....	WW-T-788
Tubing; brass, seamless.....	WW-T-791
Tubing; copper, seamless (for general use with I. P. S. flanged-fittings).....	WW-T-797
Tubing; copper, seamless (for use with soldered or flared- fittings).....	WW-T-799
Tubing; electrical, metallic.....	WW-T-806a
Unions; brass or bronze, 250-pound.....	WW-U-516
Unions; malleable-iron or steel, 250-pound.....	WW-U-531
Unions; malleable-iron or steel, 300-pound.....	WW-U-536

RUBBER AND RUBBER-GOODS (GROUP ZZ)

Aprons; rubber, surgeons'.....	ZZ-A-611
Bandages; rubber.....	ZZ-B-101
Bands; rubber.....	ZZ-B-111
Belting; conveyor (rubber).....	ZZ-B-206
Boots; rubber, hip.....	ZZ-B-551a
Boots; rubber, short, heavy.....	ZZ-B-556a
Boots; rubber, short, light.....	ZZ-B-561
Bottles; hot-water, rubber.....	ZZ-B-586a
Cement; rubber (artists' and photographers' and cold-patching)...	ZZ-C-191a
Cots; finger, rubber.....	ZZ-C-571
Cushions; ring, rubber.....	ZZ-C-796
Dams; rubber.....	ZZ-D-51
Erasers; rubber, and rubber substitute.....	ZZ-E-661a
Floor-Covering; rubber, sheet.....	ZZ-F-461
Force-Cups; plumbers'.....	ZZ-F-566
Gloves; rubber (for) electrical workers (for use in connection with apparatus or circuits not exceeding 3,000 volts to ground).....	ZZ-G-401
Gloves; rubber, surgeons'.....	ZZ-G-421

TITLE

Specification
Symbol

RUBBER AND RUBBER-GOODS (GROUP ZZ) - continued

Heels; rubber.....	ZZ-H-141
Hose; chemical.....	ZZ-H-421a
Hose; fire, cotton, rubber-lined.....	ZZ-H-451
Hose; gas (acetylene, air, hydrogen, and oxygen).....	ZZ-H-461a
Hose; gasoline, rubber-metal.....	ZZ-H-466b
Hose; oil-suction and discharge.....	ZZ-H-481a
Hose; pneumatic, braided.....	ZZ-H-496
Hose; pneumatic, wrapped.....	ZZ-H-499
Hose; spray.....	ZZ-H-521
Hose; steam.....	ZZ-H-541
Hose; suction, water, smooth-bore.....	ZZ-H-561a
Hose; tender, corrugated, locomotive.....	ZZ-H-581
Hose; water, braided.....	ZZ-H-601
Hose; water, wrapped.....	ZZ-H-611
Ice-Bags; rubber.....	ZZ-I-121
Matting; rubber.....	ZZ-M-71
Matting; rubber (for use around electrical apparatus or circuits not exceeding 3,000 volts to ground).....	ZZ-M-81
Overshoes; rubber.....	ZZ-O-841
Pillows; air, rubber.....	ZZ-P-351
Rings; jar, rubber.....	ZZ-R-351
Sleeves; dredging.....	ZZ-S-451
Stoppers; rubber.....	ZZ-S-751
Syringes; fountain, rubber.....	ZZ-S-916
Tanks; photographic, hard-rubber, developing and fixing.....	ZZ-T-91
Tips; rubber (for) crutches, furniture, etc.....	ZZ-T-351
Tires; automobile and motorcycle, pneumatic.....	ZZ-T-381b
Tires; solid, industrial and truck.....	ZZ-T-391
Tires and Tubes (inner) bicycle.....	ZZ-T-401
Trays; photographic, hard-rubber.....	ZZ-T-636
Tubes; automobile and motorcycle, inner.....	ZZ-T-721b
Tubes; inner, puncture-sealing.....	ZZ-T-766
Tubing; rubber.....	ZZ-T-831
Valves; rubber.....	ZZ-V-51

SCALES (GROUP AAA)

Scales; railroad-track.....	AAA-S-101
Scales, weighing; general specifications.....	AAA-S-121a

TITLE

Specification
Symbol

TEXTILES (yardage) (GROUP CCC)

Bunting; wool.....	CCC-B-801
Burlap; jute.....	CCC-B-811
Cheesecloth; bleached and unbleached.....	CCC-C-271
Cloth; awning.....	CCC-C-406
Cloth; handkerchief; cotton.....	CCC-C-451
Cloth; shade.....	CCC-C-521a
Denim; blue, indigo, fully-shrunk.....	CCC-D-151a
Denim; blue, indigo, unshrunk.....	CCC-D-156a
Denim; brown, unshrunk.....	CCC-D-171
Drill; unbleached.....	CCC-D-651
Duck; cotton, plied-yarns (Army, numbered and tent-duck).....	CCC-D-771a
Gauze; plain.....	CCC-G-101
Jean; bleached.....	CCC-J-191
Oilcloth; table, white.....	CCC-O-351
Percale.....	CCC-P-191
Sheeting; cotton, bleached, wide.....	CCC-S-271
Sheeting; cotton, unbleached, narrow.....	CCC-S-281
Sheeting; cotton, unbleached, wide.....	CCC-S-291
Ticking; mattress and pillow.....	CCC-T-351
Toweling; crash, cotton, and cotton and linen-mixed.....	CCC-T-571

TEXTILE PRODUCTS (GROUP DDD)

Bandages; gauze, compressed.....	DDD-B-51
Bandages; gauze, roller, plain.....	DDD-B-61a
Belting; conveyor or power-transmission, (stitched-duck).....	DDD-B-171
Carpets and Rugs; Axminster.....	DDD-C-51
Carpets and Rugs; velvet, plain and twisted pile.....	DDD-C-61b
Carpets and Rugs; Wilton.....	DDD-C-71a
Cheesecloth; (for) wiping purposes, (remnants and seconds).....	DDD-C-301
Cloths; table, cotton.....	DDD-C-481a
Cloths; wiping.....	DDD-C-491
Cloths; wiping, cotton, mixed and white, sterilized, (for) machinery.....	DDD-C-503
Pillow-Cases; cotton, bleached.....	DDD-P-351
Ribbons; computing and recording-machine.....	DDD-R-271
Ribbons; hectograph.....	DDD-R-291
Ribbons; typewriter.....	DDD-R-311a
Shades, window; rollers, slats, cords, and accessories.....	DDD-S-251
Sheets; cotton, bleached.....	DDD-S-281
Towels; crash, cotton, and cotton and linen-mixed.....	DDD-T-511
Towels; huck, office (with woven name).....	DDD-T-531
Waste; cotton, colored.....	DDD-W-101
Waste; cotton, white.....	DDD-W-106
Waste; wool, colored.....	DDD-W-116

TITLE	Specification Symbol
<u>TOOLS (GROUP GGG)</u>	
Adzes.....	GGG-A-151
Augers, Bits (auger and woodboring), and Chisels (mortising, hollow); woodworkers'.....	GGG-A-801
Axes.....	GGG-A-986
Bars; chisel, crow, pinch, and wrecking.....	GGG-B-101
Braces; ratchet.....	GGG-B-671
Chisels, Gouges and Slicks; woodworkers'.....	GGG-C-311
Clamps; and Hand-Screws.....	GGG-C-406
Coppers; soldering.....	GGG-C-571
Cutlery; galley and kitchen.....	GGG-C-746
Cutters; glass (wheel-type).....	GGG-C-751
Cutters; pipe.....	GGG-C-771
Dividers.....	GGG-D-351
Frames; hack-saw.....	GGG-F-671
Gages; plug and ring, plain and thread.....	GGG-G-61 (109
Goggles; eyecup, chippers'.....	GGG-G-301
Goggles; protective (glare and welders').....	GGG-G-511 (109
Goggles; rubber-frame.....	GGG-G-521
Hand-Saw-Sets.....	GGG-H-101
Hatchets.....	GGG-H-131
Helmets and Masks; (for) abrasive-cleaning.....	GGG-H-201
Helmets and Shields (hand-held); welders'.....	GGG-H-211
Jacks.....	GGG-J-51
Knives; drawing.....	GGG-K-471
Knives; linoleum, plumbers'-chipping, putty, scraping and shoe....	GGG-K-481
Ladles; plumbers'.....	GGG-L-51
Nail-Sets.....	GGG-N-71
Pullers; nail.....	GGG-P-791
Punches; bag, center, coopers', coppering, cutting and drive-pin..	GGG-P-831
Rules.....	GGG-R-791
Saws.....	GGG-S-61
Scissors and Shears.....	GGG-S-101a
Screw-Drivers.....	GGG-S-121a
Scribers; machinists'.....	GGG-S-131a
Shaves; spoke.....	GGG-S-271
Shears; tinners', bench, and hand (snips).....	GGG-S-291
Tools; blacksmiths' and horseshoers'.....	GGG-T-561
Tools; pipe-threading, hand.....	GGG-T-581
Trowels; plastering, cement, brick, and pointing.....	GGG-T-671
Wrenches; pipe.....	GGG-W-651

TITLE

Specification
Symbol

VEGETABLE-PRODUCTS (GROUP JJJ)

Cotton; absorbent.....	JJJ-C-561
Mucilage.....	JJJ-M-791
Oil; linseed, boiled.....	JJJ-O-331
Oil; linseed, raw.....	JJJ-O-336
Wax; sealing.....	JJJ-W-151a

WOOD-PRODUCTS (GROUP LLL)

Boxes; fiber, corrugated.....	LLL-B-631a
Boxes; fiber, solid.....	LLL-B-636a
Linoleum; battleship.....	LLL-L-351
Linoleum; plain, inlaid and printed.....	LLL-L-361
Receptacles; waste-paper, fiber, office and lobby.....	LLL-R-191
Turpentine; (for) paint, type I.....	LLL-T-791a
Turpentine; (for) paint, type II.....	LLL-T-792

LIST OF COMMERCIAL STANDARDS
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NOTE: Printed pamphlets may be obtained for five cents a copy unless otherwise indicated (stamps not accepted) from the Superintendent of Documents, Government Printing Office, Washington, D. C.
Those marked "OP" are out of print, but in general, may be consulted at technical libraries or many public libraries.

<u>Title</u>	CS No.
Apple Wraps.....	44-32
Blankets; Wool and Part Wool (Second Edition).....	39-37
Blouses, Shirts and Junior Shirts and Waists (Button-on); Boys'..	14-31 (OP)
Board, Binders, for Bookbinding and Other Purposes.....	50-34
Board, Chip, Laminated Chip Board and Miscellaneous Boards for Bookbinding Purposes.....	49-34
Board, Fiber Insulating (Second Edition).....	42-35
Bone Plates and Screws; Steel.....	37-31 (10¢)
Book Cloths, Buckrams and Impregnated Fabrics for Bookbinding Purposes except Library Bindings.....	57-36
Burners, Domestic; for Pennsylvania Anthracite (Underfeed Type)..	48-34
Cloth; Cotton, for Rubber & Pyroxlin Coating.....	32-31
Colors and Finishes for Cast Stone.....	53-35
Colors for Sanitary Ware.....	30-31 (20¢)
Drill Fittings; Diamond Core (Second Edition).....	17-32
Fabrics for Use in Overalls, Woven Elastic (Overall Elastic Webbing).....	58-36
Feldspar.....	23-30
Flooring, Oak.....	56-36
Gage Blanks (Second Edition).....	8-33 (OP)
Gloves, Latex, Surgeons'.....	41-32
Gloves, Rubber, Surgeons'.....	40-32
Gold Filled and Rolled Gold Plate Articles, Other than Watch Cases, Marking of.....	47-34
Golf Shafts; Hickory.....	18-29 (10¢)
Hardware; Builders' Nontemplate.....	22-30 (OP)
Hardware; Builders' Template (Second Edition).....	9-33
Lining; Closet, Red Cedar (Aromatic).....	26-30
Mattresses for Hospitals.....	54-35
Mattresses for Institutions.....	55-35
Mirrors (Second Edition).....	27-36
Mohair Pile Fabrics (100-Percent Mohair Plain Velvet, 100- Percent Mohair Plain Frieze and 50-Percent Mohair Plain Frieze).....	52-35
Mcpsticks.....	2-30

LIST OF COMMERCIAL STANDARDS
TO WHICH THE CERTIFICATION PLAN HAS BEEN APPLIED - continued

<u>Title</u>	<u>CS</u> <u>No.</u>
Oils, Fuel (Fourth Edition).....	12-38
Oils, Sulphonated, Grading of.....	43-32 (OP)
Pajamas; Men's.....	15-29 (OP)
Patterns; Dress (Second Edition).....	13-39
Patterns; Foundry, Wood (Second Edition).....	19-32 (OP)
Pipe Nipples; Brass.....	10-29
Pipe Nipples; Steel.....	5-29 (10¢)
Pipe Nipples; Wrought-Iron (Second Edition).....	6-31
Plumbing Fixtures; Porcelain (all Clay) Staple.....	4-29 (10¢)
Plumbing Fixtures; Vitreous China, Staple (Second Edition).....	20-36 (10¢)
Plywood, Douglas Fir (Third Edition).....	45-38
Plywood, (Hardwood and Eastern Red Cedar).....	35-31 (10¢)
Seats; (for) Water Closet Bowls, Staple.....	29-31
Sheeting, Rubber (Hospital).....	38-32
Shingles; Wood (Fourth Edition).....	31-38
Silver Articles in Combination with Gold, Marking of.....	51-35
Solvent; Dry-Cleaning (Stoddard Solvent).....	3-38
Stopcocks, Stoppers and Joints, Interchangeable Ground-Glass (Fourth Edition).....	21-39
Tents; Cotton-Fabric, Tarpaulins and Covers.....	28-32 (10¢)
Thermometers; Clinical (Second Edition).....	1-32
Underwear; Knit (Exclusive of Rayon).....	33-32 (15¢)
Unions, Malleable Iron or Steel, Screwed, Standard Weight.....	7-29
Wall Paper.....	16-29
Wire Cloth, Fourdrinier (Second Edition).....	36-33
Yarns; Cotton, Mercerized, Regain of.....	11-29