U. S. DEPARTMENT OF COMMERCE JESSE H. JONES, Secretary NATIONAL BUREAU OF STANDARDS LYMAN J. BRIGGS. Director National Bureau of Standards AUG 1 8 1941 **DIAMOND CORE DRILL FITTINGS** (THIRD EDITION) Reference book not to be Section 1 vary. **COMMERCIAL STANDARD CS17-42** Effective Date for New Production from January 1, 1942 A RECORDED VOLUNTARY STANDARD OF THE TRADE UNITED STATES **GOVERNMENT PRINTING OFFICE** WASHINGTON: 1941

For sale by the Superintendent of Documents, Washington, D. C. - - - Price 10 cents

NATIONAL BUREAU OF STANDARDS

PROMULGATION

of

COMMERCIAL STANDARD CS17-42

for

DIAMOND CORE DRILL FITTINGS

(THIRD EDITION)

On May 27, 1929, at the instance of the Diamond Core Drill Manufacturers Association, a joint conference of representative manufacturers, drilling contractors, and general interests adopted a commercial standard for diamond core drill fittings which was accepted by the industry and published as Commercial Standard CS17-30. In 1932, upon recommendation of the standing committee to keep the standard abreast of progress, a revision was adopted and issued as CS17-32.

On March 25, 1941, with the endorsement of the standing committee, a revision of CS17-32, drafted by the Diamond Core Drill Manufacturers Association, was circulated for acceptance. Those concerned have since accepted and approved for promulgation by the United States Department of Commerce, through the National Bureau of Standards, the revised standard as shown herein.

The standard is effective for new production from January 1, 1942.

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.

п

DIAMOND CORE DRILL FITTINGS

(THIRD EDITION)

COMMERCIAL STANDARD CS17-42

PURPOSE

1. The purpose of this commercial standard is to provide dimensional interchangeability in essential diamond core drill fittings as made by American manufacturers. The difficulty of replacing parts in the field should therefore be minimized, since sizes and size designations are identical for all manufacturers.

SCOPE

2. This standard covers standard designs and tolerances with controlling dimensions for rod couplings, drill rods, core-barrel bits, reaming shells, core-barrel outer tubes, core-barrel bits, casing couplings, flush-coupled casings, flush-joint casings, and casing bits. Dimensions of core-barrel bits and reaming shells apply to these items as machine-shop products prior to being set with drilling diamonds.

GENERAL

3. The following nomenclature, symbols, dimensions, tolerances, and types are recommended as standard for diamond core drill fittings.

4. The four sizes of diamond core drill casing shall be known as EX, AX, BX, and NX. The corresponding sizes of bits, core barrels, and core-barrel parts shall be known as EXT, AXT, BX, and NX. Rod and rod coupling sizes are known as E, A, B, and N. Nominal dimensions are given in table 1 and illustrated in figure 2.

Casing, casing cou- pling, casing bits	Core barrels, core- barrel bits, reaming shells	Rod, rod cou- plings		ing I. D. ¹	Casing bit, O. D.	Core- barrel bit, O. D.	Core- barrel bit, I. D.	Ream- ing shell, O. D.	Drill rod, O. D.	Approx. diam. of hole made by core- barrel bit and shell ²	Approx. diam. of core ³
EX AX BX NX	EXT AXT BX NX	E A B N	in. 1 ¹³ /16 2 ¹ / ₄ 2 ⁷ / ₈ 3 ¹ / ₂	in. 1½ 12%2 23% 3	$in. \\ 1^{55/64} \\ 2^{21/64} \\ 2^{61/64} \\ 3^{37/64}$	in. 12764 15364 2 ¹⁹⁶⁴ 2 ⁵⁹⁶⁴	in. ^{15/16} 1 ^{5/16} 1 ^{11/16} 2 ^{3/16}	in. 1^{2964} 1^{5564} 2^{2164} 2^{6164}	in. 15/16 15/8 129/32 23/8	in. 1½ 178 238 3	in. 15/16 15/16 15/8 21/8

TABLE 1.-Nominal dimensions

Inside diameter of flush-joint casing, and of coupling of flush-coupled casing.
Assuming hole 1/32 inch larger than reaming shell and listing diameters to nearest 1/16 inch.
Assuming core 1/32 inch smaller than I. D. of bit and listing diameters to nearest 1/16 inch.

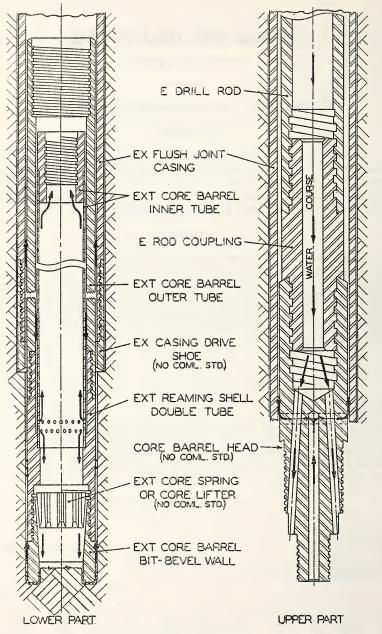


FIGURE 1.—Cross section through rigid-type double-tube core barrel assembly, EXT.

5. Casings made flush on the outside when connected with couplings shall be known as "flush-coupled casing"; when connected without couplings, shall be known as "flush-joint casing." The threads of both are identical. Unless otherwise specified by the purchaser, either type of EX and AX casing may be furnished by the manu-facturer. BX and NX casing are furnished only in the flush-coupled type.

6. Core barrels shall be known as "single-tube core barrels", "rigid-type double-tube core barrels", or "swivel-type double-tube core barrels", as the case may be. 7. Single-tube and double-tube core-barrel bits shall be identical.

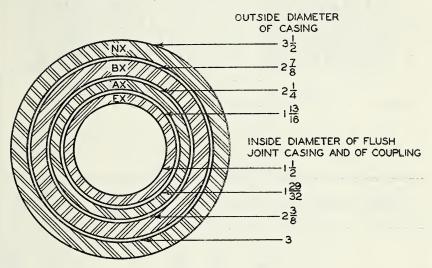


FIGURE 2.—Section through casing couplings.

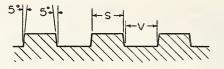
8. The term "reaming shell" shall be used in preference to "swell coupling." The bit thread of reaming shells and core shells shall conform to the standard bit thread.

9. Single-tube reaming shells are not standardized except that the lower threads and the external diameters shall be identical with those of the corresponding double-tube reaming shell.

10. The approximate sizes of standard cores are: NX, 21/8 inches; BX, 1% inches; AXT, 1% inches; EXT, 1% inch. Larger cores are obtainable with special fittings.

DETAIL REQUIREMENTS

11. The dimensions and tolerances for rod couplings, drill rods, core-barrel bits, reaming shells, core-barrel outer tubes, core-barrel inner tubes, casing couplings, flush-coupled casings, flush-joint casings and casing bits are given in tables 2 to 12, inclusive, and in the drawings which accompany them.



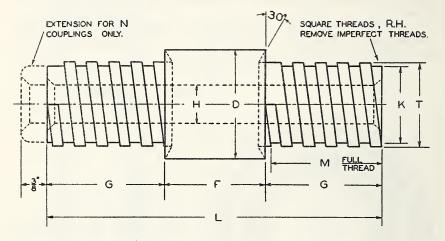
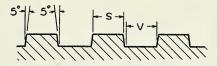


TABLE 2.-Rod couplings

The description of the second	-1-1	D	F	G	н	Threads	ŀ	ζ
Designating syn		D	F	ч	н	per inch	max	min
E A B N		$in.\ 15/16\ 15/8\ 129/32\ 23/8$	in. 1½ 1½ 1½ 1½ 1½	in. 1½ 134 178 238	in. 7/16 9/16 5/8 1	3 3 5 4	in. 0.874 1.139 1.280 1.686	$in. \\ 0.870 \\ 1.134 \\ 1.275 \\ 1.681$
Designating symbol	L	м	8	5	<u>л</u>	Г	V	7
Designating symbol	Б	M	max	min	max	min	max	min
E A B N	$in. \ 4\frac{1}{2} \ 5 \ 5\frac{1}{4} \ 6\frac{1}{4}$	in. 17/16 111/16 113/16 2 ⁵ /16		in. 0.1563 .1563 .0897 .1120	in. 0.999 1.264 1.405 1.874	<i>in.</i> 0. 998 1. 263 1. 404 1. 873	<i>in.</i> 0. 1657 . 1657 . 0990 . 1212	<i>in.</i> 0. 1617 . 1617 . 0950 . 117 3



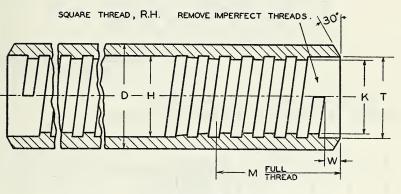
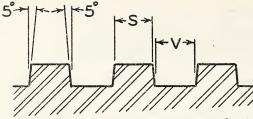
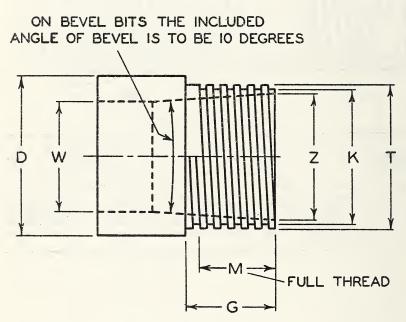


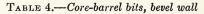
TABLE 3.—Drill ro	d
-------------------	---

Designating	D	н	F	Σ.	м	\$	8	1	r	Threads	, T	7	w
symbol	D		max	min	IVI	max	min	max	min	per inch	max	min	
E A B N	$\substack{in.\\15/16\\15/8\\1^29/32\\\{\max.\ 2.385\\\min.\ 2.375\}$	10	1.142	0.876	17⁄8 2	0.1608 .1608 .0941	.1544 .0877	$1.267 \\ 1.408$	$1.266 \\ 1.407$	3 5	in. 0. 1680 . 1680 . 1014 . 1236	. 1617 . 0950	1/4 1/4



8- SQUARE THREADS PER INCH-R.H.



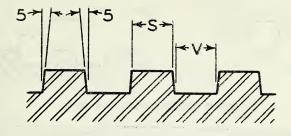


[8 threads	\mathbf{per}	inch	R.	н.]	
------------	----------------	------	----	-----	--

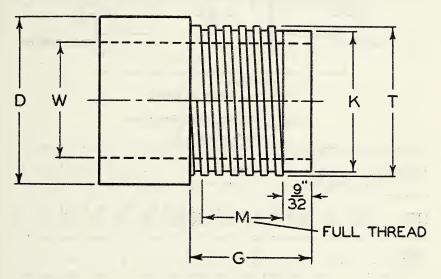
Desig- nating]	0	G	K	:	MI		3	г	1		7	1	v	Z	
symbol	max	min	G	max	min		max	min	max	min	max	min	max	min	max	min
			1 11/8	<i>in.</i> 1. 186 1. 592 1. 967 2. 592	$\begin{array}{c} 1.\ 181 \\ 1.\ 587 \\ 1.\ 962 \end{array}$	1 28	$0.0594 \\ .0594 \\ .0594$	in. 0.0550 .0550 .0550 .0550	$\begin{array}{c} 1.\ 249 \\ 1.\ 655 \\ 2.\ 030 \end{array}$	$1.654 \\ 2.029$	$.0642 \\ .0642$.0602	$1.314 \\ 1.689$	1.685	1.536	$1.526 \\ 1.885$

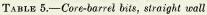
¹ Threads shall be full form to within ½ inch of shoulder.

Diamond Core Drill Fittings



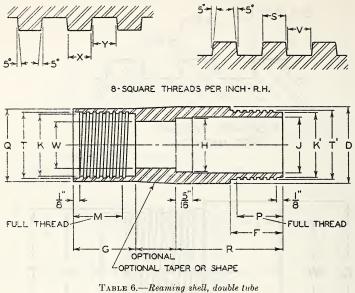
8-SQUARE THREADS PER INCH-R.H.





[8 threads per inch R. H.]

Designating	I)	G	ŀ	ς	м	N	3	<u>.</u> 1	7	7	7	V	v.
symbol	max	min	ŭ	max	min		max	min	max	min	max	min	max	min
EXT AXT BX NX	in. 1. 423 1. 830 2. 298 2. 923	$1.826 \\ 2.294$	$in. \\ 15/32 \\ 19/32 \\ 113/32 \\ 1^{13}/32 \\ 1^{17}/32 \end{cases}$		in. 1. 181 1. 587 1. 962 2. 587	3/8	. 0594 . 0594	. 0550	$1.655 \\ 2.030$	$1.654 \\ 2.029$.0642 .0642	.0602	$1.314 \\ 1.689$	



						[8	thread	is per	inen i	s. H.)						
Designa symb			D		F		g -	E	[J	E	c	F	¢'	м	Р
		max	mi	n m	ax m	in	1	max	min		max	min	max	min		
EXT		in. 1.455 1.861		51 1.	000 0.1	992	13/16			in. 1764 13164				in. 1.244 1.619		in. 78 118
Desig- nating symbol		5	R		8		T		Т'		v	w	2	ĸ		ζ
0,1110,01	max	\min		max	min	max	min	ma	a min	max	min		max	min	max	min
EXT AXT			21/32					1 1, 31	1 1.310	0.064	2 0. 0602				in. 0.0667 .0667	

LE 0.—Keaming	sneu,	aouoie
---------------	-------	--------

threads per inch R. H.I.

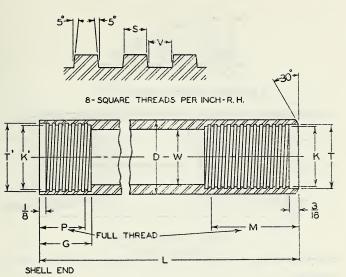


TABLE 7.—Core-barrel outer tube

[8 threads per inch R. H.]	1	8 threads	per	inch	R.	H.l
----------------------------	---	-----------	-----	------	----	-----

Designation	.)	-			(3			. 1	ĸ			K	<i>'</i>			L	м
Designating symb	-01			m	ax	· m	in	- m	ax	m	in	ń	ax	m	in		5	
EXT			n. 7⁄16 27⁄32			n. 000 250	00 1.158				1.	in. 1.252 1.627		n. 251 626	9 10	and in. 1'-11\5'' ±\54" y'-0" ±\54"	in. 1 ¹ /16 1 ¹³ /16	
Designating symbol	F	>	m	s ax	mi	in	ma	- AX	r mi	'n	ma	T IX	mi	n	me	N ax	min	W
ЕХТ АХТ	XT			593 0.0529 1			220 627		219 526	in. 1.314 1.689		1.3	. 313 0.		367 367	in. 0.0602 .0602	in 196± 11732	

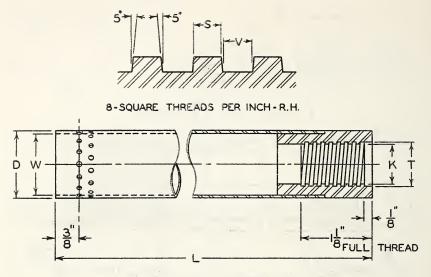


TABLE	8,	Core-be	arrel	inner	tube
-------	----	---------	-------	-------	------

Designating	D]	ς	Ť.	5	3		Г . ¹		v	w
symbol	D	max	min 🗟	لد بر 131م و	max	min	max	min	max	min	
EXT	in. 13/16 17/16		in. 0.626 .938	$ \begin{array}{c} ft \ and \ in. \\ 9'-10\frac{1}{2}'' \\ \pm \frac{1}{64}'' \\ 9'-10^{1}\frac{1}{16}e'' \\ \pm \frac{1}{64}'' \end{array} $	in. 0.0593 .0593	in. 0. 0529 . 0529	<i>in.</i> 0. 689 1. 002	<i>in.</i> 0.688 1.001	in. 0.0667 .0667	in. 0.0602 .0602	- in. 3132 11132

4.1157

[8 threads per inch R. H.]

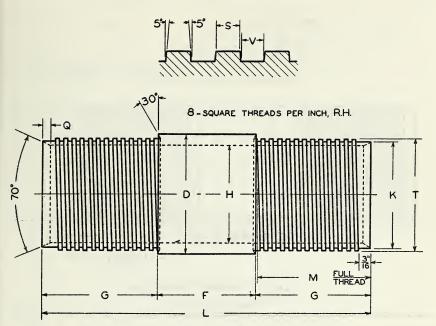


TABLE 9.—Casing couplings

[8 threads per inch R. H.]

			_	·	I	I	· `]	ĸ		
Designating symbol	Ð	F		G	max	min	max	min		M 1
EX AX BX NX	$in.\ 1^{13/16}\ 2^{1/4}\ 2^{7/8}\ 3^{1/2}$	in	$1\frac{1}{2}$ 3 $3\frac{1}{2}$ $3\frac{1}{2}$ $3\frac{1}{2}$	$in.\ 1342\ 21\%2\ 23\%$	1,906	<i>in</i> . 1. 490 1. 896 2. 365 2. 990	in. 1.655 2.061 2.592 3.217	in. 1.65 2.05 2.58 3.21	50 5 56 7 87 7	158
Designating symbol	0	ł		S max	min	max	T mi	n –	max	V min
EX AX BX NX	in	2. 18 316 14 14 14		in. 0.0594 .0593 .0580 .0580	in. 0.0550 .0549 .0536 .0536	in. 1.71 2.12 2.68 3.31	4 2. 6 2.	716 123 685 310	in. 0.0642 .0642 .0629 .0629	in. 0.0602 .0602 .0588 .0588

¹ Threads shall be full form to within ½ inch of shoulder.

......

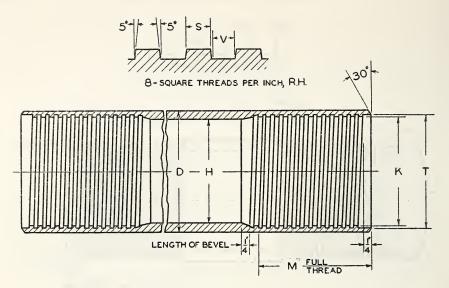


TABLE	10	Casing,	flush-co	oupled
-------	----	---------	----------	--------

Designating symbol	рн		ĸ		M 1	8		т		v	
			max	min		max	min	max	min	max	min
EX AX BX NX	in. 1 ^{13/16} 2 ^{1/4} 2 ^{7/8} 3 ^{1/2}	in. 15⁄8 2 2 ^{15⁄32} 3 ¹ ⁄16	in. 1.658 2.064 2.595 3.220	in. 1.657 2.063 2.594 3.219	in. 178 218 214 214 212	in. 0.0593 .0593 .0579 .0579	in. 0.0529 .0529 .0515 .0515	in. 1.720 2.127 2.689 3.314	in. 1.719 2.126 2.688 3.313	in. 0.0667 .0665 .0652 .0652	in. 0.0602 .0602 .0589 .0589

[8 threads per inch R. H.]

¹ Threads shall be recessed 1/4 inch.

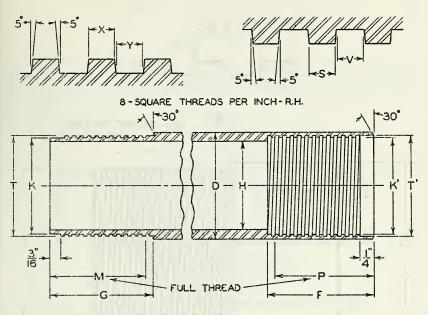
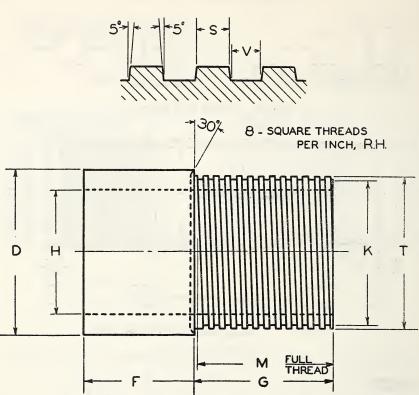


TABLE 1	1.—Casing,	flush-joint	(EX	and	AX)
---------	------------	-------------	-----	-----	-----

[8 threads	per	inch	R.	Н.]	
------------	-----	------	----	-----	--

Designating	D		F G		н		K		K'		м	Р
symbol 1	U	max	mín	ŭ	max	min	max	min	max	ⁱ min	M	1
EX AX	in. 1 ^{13/16} 2 ^{1/4}	in. 1. 817 2. 067	$in. \\ 1.812 \\ 2.062$	in. 134 2	in. 1.500 1.906	<i>in.</i> 1.490 1.896	$in. \\ 1.655 \\ 2.061$	<i>in</i> . 1.650 2.056	in. 1.658 2.064	in. 1.657 2.063	in. 158 178	in. 1 ¹¹ /16 1 ¹³ /16
Designating	5	3		r	ŋ	Y		v		x	1	ζ
Designating symbol 1	max	3 min	max	r min	ן max	min	max	v min	max	x min) max	min

¹ Flush joint casing is not made in BX and NX sizes.



Commercial Standard CS17-42

TABLE 12.—Casing bit

[8 threads per inch R. H.]

	Γ)	n		н	K		
Designating symbol	max min		F	G	(approxi- mate)	max	min	
EX AX BX NX	in. 1.861 2.330 2.955- 3.580	in. 1.857 2.326 2.951 3.576	in. $11/4$ 11/2 13/4 2	in. 19/16 1 ^{13/16} 1 ^{15/16} 1 ^{15/16}	21/4	in. 1.655 2.061 2.592 3.217	in. 1.650 2.056 2.587 3.212	
Designating symbol	M 1	ź	3	r	т		v	
	MI.	max	min	max	min	max	min	
EX AX BX NX	in. 17/16 1 ¹¹ /16 1 ¹³ /16 1 ¹³ /16	in. 0.0594 .0593 .0580 .0580	in. 0.0550 .0549 .0536 .0536	in. 1.717 2.124 2.686 3.311	$in. \\ 1.716 \\ 2.123 \\ 2.685 \\ 3.310$	$in. \\ 0.0642 \\ .0642 \\ .0629 \\ .0629 \\ .0629$	in. 0.0602 .0602 .0588 .0588	

¹ Threads shall be full form to within ½ inch of shoulder.

MARKING

12. The following symbol or seal is used in trade literature and advertisements by members of the Diamond Core Drill Manufacturers' Association to indicate equipment manufactured according to this commercial standard.

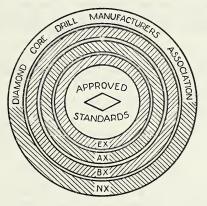


FIGURE 3.-Seal.

13. Figure 4 illustrates insignia adopted by the Diamond Core Drill Manufacturers' Association for marking items of diamond core drill equipment conforming to this standard. The significance of the insignia as marked on the equipment is explained in the certificate of compliance below, which should accompany each contract and shipment.



FIGURE 4.—Insignia.

CERTIFICATE OF COMPLIANCE

Date _____

The diamond core drill equipment marked with the above insignia has been manufactured by a member of the DIAMOND CORE DRILL MANUFACTURERS' ASSOCIATION and is guaranteed by the undersigned to conform to COMMERCIAL STANDARD CS17-42 issued by the NATIONAL BUREAU OF STANDARDS, UNITED STATES DEPARTMENT OF COMMERCE.

COMMERCIAL STANDARD CS17-42

Name of manufacturer

EFFECTIVE DATE

The standard is effective for new production from January 1, 1942.

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 organization nominated its own representative. 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. C. JOHANSEN (chairman), Sullvian Machinery Co., Michigan City, Ind. R. D. LONGYEAR, E. J. Longyear Manufacturing Co., 1701 Foshay Tower, Minneapolis, Minn.

B. H. MOTT, Mott Core Drilling Co., 8th Ave. & 9th St., Huntington, W. Va. WM. J. SCHANK, Sprague & Henwood, Inc., 221 Olive St., Scranton, Pa. Users:

E. L. DERBY, JR., Cleveland Cliffs Iron Co., Ishpeming, Mich. T. B. STURGES, Pennsylvania Drilling Co., 1201 Chartiers Ave., Pittsburgh, Pa.

HISTORY OF PROJECT

On May 27, 1929, at the request of the Diamond Core Drill Manufacturers' Association a general conference of manufacturers, drilling contractors, and general interests was held at Chicago, Ill., to which approximately 1,100 interested organizations had been invited. Following acceptance by a satisfactory majority, the recommended standard was issued as Commercial Standard CS17-30, being effective for new production on January 1, 1930, and for clearance of existing stocks on July 1, 1930.

FIRST REVISION

On the recommendation of the standing committee, a revised draft was circulated to the industry for written acceptance on March 5, 1932. The revised draft included the new tolerances adopted by the Diamond Core Drill Manufacturers' Association. In general, the changes constitute minor refinements which have developed as a result of experience with the standards and which do not change the important nominal dimensions as set forth in the first edition of the pamphlet. As announced to the trade under date of May 14, 1932, the revised standard was accepted and authorized by the industry for publication as Commercial Standard CS17-32. It was effective for new production and clearance of existing stocks from August 15, 1932.

SECOND REVISION

Pursuant to a request of the Diamond Core Drill Manufacturers' Association dated December 18, 1940, and following approval by the Standing Committee, the second revision was circulated on March 25, 1941, to all concerned for written acceptance. Its chief purpose is to reduce the area of the kerf cut by the two smaller sizes of core-barrel bits, thereby decreasing drill costs and recovering a slightly larger core. The revision provides new, thin-wall core barrels, core-barrel bits and reaming shells designated EXT and AXT, as well as new flush-joint casings in these two sizes. Following acceptance by a preponderant majority, the second revision was announced and promulgated on May 23, 1941, as Commercial Standard CS17-42.

CS17-42

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 CS17-42 as our standard of practice in the

Production ¹

Cut on this line)

Inspection ¹

Use¹

of diamond core drill fittings.

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. 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 standards 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 opmion of the standing committee or the Department of Commerce, the support of any standard is inadequate, the right is reserved to withhold promulgation and publication.

ACCEPTORS

The organizations and individuals listed below have accepted this standard as their standard of practice in the production and use of diamond core drill fittings. 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	Cochran Coal Co., Salina, Pa.
American Association of Engineers,	Cohen, A. Burton, New York, N. Y.
	Cole & McDonald Exploration Co.,
Chicago, Ill.	Virginia, Minn.
Nevada Mine Operators Association,	Consolidated Coppermines Corpora-
Reno, Nev.	tion, Kimberly, Nev.
FIRMS	Cornell University, Ithaca, N. Y. (In
	principle.)
Acker Drill Co., Scranton, Pa.	Crafts Co., Inc., Arthur A., Boston,
Alabama, Geological Survey of, Uni-	Mass.
versity, Ala. (In principle.)	Dawson Daylight Coal Co., Dawson
Alaska-Pacific Consolidated Mining Co.,	Springs, Ky.
Wasilla, Alaska.	Denver Machine Shop, Denver, Colo.
American Metal Co., Ltd., The, New	Denver Municipal Water Works, Board
York, N. Y.	of Water Commissioners, Denver,
American Potash & Chemical Corpora-	Colo.
tion, Trona, Calif.	Diamond Drill Contracting Co., Spo-
American Zinc Co. of Tennessee, Mas-	kano Wash
	kane, Wash.
cot, Tenn. Appalachian Electric Power Co., Pu-	Drake Drilling Co., A. W., Scranton,
	Pa. Dravel Institute of Technology Phile
laski, Va.	Drexel Institute of Technology, Phila-
Arizona, University of, Tucson, Ariz.	delphia, Pa.
Arkansas Power & Light Co., Pine	El Paso Testing Laboratories, El Paso,
Bluff, Ark.	Tex.
Baltimore, Bureau of Water Supply of,	El Potosi Mining Co., Chihauhua, Chih.,
Baltimore, Md.	Mexico.
Bath & Co., John, Worcester, Mass.	Enterprise Coal Mining Co., Inc.,
Beaumont Iron Works Co., Beaumont,	Garrett, Pa.
Tex. (In principle.)	Eureka Coal Co., Athens, Ohio.
Bennett, Russell H., Minneapolis,	Ford Collieries Co., Curtisville, Pa.
Minn.	France Stone Co., The, Toledo, Ohio.
Bicknell Manufacturing Co., Rockland,	Gay Coal & Coke Co., The, Mount
Maine.	Gay, W. Va.
Buhl Co., The, Chicago, Ill.	Gilmore & Co., F. F., Boston, Mass.
California, State Bureau of Purchases	Golconda Diamond Products Corpora-
of, Sacramento, Calif.	tion, Chicago, Ill.
Canadian Collieries (Dunsmuir), Ltd.	Hawley Engineering Corporation,
Cumberland, B. C., Canada.	Charles B., Washington, D. C.
Canadian Longyear, Ltd., North Bay,	Heath & Sherwood, Kirkland Lake,
Ont., Canada.	Ont., Canada.
Chicago Pneumatic Tool Co., New	Homestake Mining Co., Lead, S. Dak.
York, N. Y.	Howard-Needles-Tammen & Bergen-
Cia. Minera de Penoles S. A., Avalos,	doff, Kansas City, Mo.
Zacatecas, Mexico.	Hudson Coal Co., Scranton, Pa.
Cleary Hill Mines Co., Fairbanks,	Hydraulic-Press Brick Co., St. Louis,
Alaska.	Mo.
Cleveland-Cliffs Iron Co., The, Ishpem-	Idaho Maryland Mines Corporation,
ing, Mich.	Grass Valley, Calif.
Clinchfield Coal Corporation, Dante,	Idaho, University of, School of Mines,
Va	Moscow Idaho

- Illinois Division of Highways, Spring-1 Ohio Seamless Tube Co., The, Shelby, field, Ill.
- Ingersoll-Rand Co., New York, N. Y. Inland Steel Co., Ishpeming, Mich. Interstate Iron Co., Pittsburgh, Pa. Iowa State College, Department of

- Chemical & Mining Engr., Ames, Iowa. (In principle.)
- Isaacson Iron Works, Seattle, Wash.

- Island Creek Coal Co., Holden, W. Va. Kansas, University of, Lawrence, Kans. Karelsen, Inc., E., New York, N. Y. Keystone Portland Cement Co., Bath,
- Pa. Lafayette College, Easton, Pa. (In
- principle.)
- Laucks Laboratories, Inc., Seattle, Wash.
- Lehigh University, Bethlehem, Pa. (In principle.)
- Liberty Fuel Co., Salt Lake City, Utah. Longtin, Daniel G., San Francisco, Calif.
- Longyear Co., E. J., Minneapolis, Minn.
- Los Angeles Testing Laboratory, Los Angeles, Calif.
- Massachusetts Institute of Technology, Cambridge, Mass. McClintock, R. S., Spokane, Wash. Michigan, Geological Survey Division
- of, Department of Conservation,
- Lansing Mich. (In principle.) Middle Rio Grande Conservancy Dis-
- Middle Rio Grande Conservancy 215 trict, Albuquerque, N. Mex. Minas de Matahambre, S. A., Mata-hambre, Pinar del Rio, Cuba. Mississippi Lime Co., Alton, Ill. Mitchell Diamond Drill Co., San
- Francisco, Calif. Moffat Coal Co., Denver, Colo.
- State College, Bozeman, Montana Mont.
- Mott Core Drilling Co., Huntington, W. Va.
- W. va. Mott Machine & Manufacturing Co., Huntington, W. Va. Mutual Coal Co., Gallup, N. Mex. National Gypsum Co., Saltville Plant,
- North Holston, Va.
- Nebraska, University of, Lincoln, Nebr. (In principle.)
- New York, Board of Water Supply of the City of, New York, N. Y.
- New York (State Museum), University of State of, Albany, N. Y. New York Testing Laboratories, Inc.,
- New York, N. Y.
- North Dakota, University of, School of Mines, Grand Forks, N. Dak. (1n principle.)
- Northwestern Improvement Co., Seattle, Wash.
- Notre Dame, University of, Notre Dame, Ind.
- Nova Scotia, Department of Mines of, Halifax, Nova Scotia.
- Odgers, Ira, Crystal Falls, Mich.

- Ohio.
- Pech Foundry & Manufacturing Co., Gus, LeMars, Iowa.
- Penn Anthracite Collieries Co., Scranton, Pa.
- Pennsylvania Drilling Co., Pittsburgh, Pa.
- Philadelphia & Reading Coal & Iron Co., Pottsville, Pa. Pittsburgh Steel Co., Allenport, Pa.
- Pursglove Coal Mining Co., Cleveland, Ohio.
- Reed Roller Bit Co., Houston, Tex.
- Roberts, Hugh M., Duluth, Minn. St. Louis, City of, St. Louis, Mo.
- Service Steel Co., Los Angeles, Calif.
- Sheffield Corporation, The, Dayton, Ohio.
- Sheridan-Wyoming Coal Co., Inc., Monarch, Wyo.
- Smit & Co., Inc., Anton, New York, N. Y.
- Smit & Sons, Inc., J. K., New York, N.Y
- Smith & Travers Co., Ltd., Sudbury, Ont., Canada.
- South Carolina Electric & Gas Co., Columbia, S. C.
- South Carolina Geological Survey, Columbia, S. C. (In principle.)
- Southern Drilling Co., Roanoke, Va.
- Southern Pacific Co., San Francisco, Calif.
- Sprague & Henwood, Inc., Scranton, Pa.
- Stanford University, Stanford University, Calif. (In principle.)
- Sullivan Machinery Co., Michigan City, Ind.
- Tennessee Copper Co., Ducktown, Tenn.
- Tennessee Division of Geology, Nashville, Tenn. (In principle.)
- Thompson & Lichtner Co., Inc., The, Boston, Mass.
- Truax-Traer Coal Co., Chicago, Ill.
- Twining Laboratories, The, Fresno, Calif.
- Utah, University of, Salt Lake City, Utah.
- West Virginia, School of Mines cf, Morgantown, W. Va. (In principle.) Whiteside, Fred W., Denver, Colo. Wisconsin, Department of Mining &
- Metallurgy of, Madison, Wis. Wisconsin Institute of Technology,
- Platteville, Wis.
- Wright-Hargreaves Mines, Ltd., Kirkland Lake, Ont., Canada.

U. S. GOVERNMENT

Geological Survey, Washington, D. C. Treasury Washington, Department,

- D. C.
- War Department, Washington, D. C.

U.S. DEPARTMENT OF COMMERCE

NATIONAL BUREAU OF STANDARDS

WASHINGTON

ADDRESS REPLY TO NATIONAL BUREAU OF STANDARDS IJF:np

Octob r 22, 19-2

IN YOUR REPLY REFER TO FILE TS-3359

To Manufacturers, Inspectors, and Users of Diagond Core Prill Fittings.

> Subject: Diamond Core Frill Fittings, CS17-42 -Second Extension of Effective Date

Gentleren:

Under date of September 25, 1942, the Dismond Core Drill Vanufacturers Association requested a second extension of the effective date for new production of diamond core drill fittings in accordance with the new parts of Commercial Standard CS17-42 for the following reasons:

"The new standards do not so much result in the simplification of the present standards as specified in CE17-32 as to set up new standards of thinner wall bits. These thin wall bits are not greatly used in the United States at the present time, although they have cond into extensive use in Canada, where they have already been standardized.

"It is expected that eventually CS17-42 will completely replace CS17-32, but from the nature of the art, it will take months to effect this replacement."

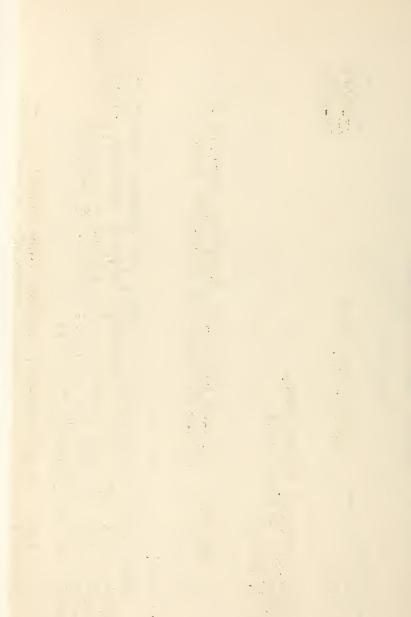
Agrecable to the above request in the war emergency, and with the approval of the Standing Committee, the effective date for new production of diamond core drill fittings, according to Commercial Standard CS17-42, is hereby extended from January 1, 1947, to six months after official announcement of cessation of actual hostilities, or to such earlier date as may be recommended by the Standing Committee.

In the meantime, the existing Commercial Standard CS17-32 will remain in effect.

Cordially yours,

T. J. Fairchild, Division of Trade Standards

Chief.



COMMERCIAL STANDARDS

CS N	o. Item	CS N	fo. Items
	Commercial standards and their value to	51-35.	Marking articles made of silver in combina-
	business (third edition).		tion with gold.
1-32.	Clinical thermometers (second edition).	52-35.	Mohair pile fabrics (100-percent mohair plain
2-30.	Mopsticks.		velvet, 100-percent mohair plain frieze, and
3-40.	Stoddard solvent (third edition).		50-percent mohair plain frieze).
4-29.	Staple porcelain (all-clay) plumbing fixtures.		Colors and finishes for cast stone.
5-40.	Pipe nipples; brass, copper, steel, and wrought		Mattresses for hospitals.
	iron.		Mattresses for institutions.
6-31.	Wrought-iron pipe nipples (second cdition).	56-41.	Oak flooring (second edition).
	Superseded by CS5-40.	57-40.	Book cloths, buckrams, and impregnated fab-
7-29.	Standard weight malleable iron or steel		rics for bookbinding purposes except library
	screwed unions.		bindings (second edition).
	Gage blanks (third edition).	58-36.	Woven elastic fabrics for use in overalls (over-
9-33.	Builders' template hardware (second edition).	20 41	all elastic webbing).
10-29.	Brass pipe nipples. Superseded by CS5-40.	09-41.	Woven textile fabrics-testing and reporting
11-41,	Moisture regains of cotton yarns (second edi-	00.00	(third edition).
10 10	tion).	00-30.	Hardwood dimension lumber.
	Fuel oils (fifth edition).		Wood-slat venetian blinds. Colors for kitchen accessories.
14 20	Dress patterns (second edition).		Colors for bathroom accessories.
14-59.	Boys' button-on waists, shirts, junior and polo shirts (made from woven fabrics)		Walnut veneers.
	(second edition).	65.28	Wool and part-wool fabrics.
15.90	Men's pajamas.	66 38	Marking of articles made wholly or in part of
16-20	Wall paper.	00-00.	platinum.
17-42	Diamond core drill fittings (third edition).	67-38	Marking articles made of karat gold.
	Hickory golf shafts.		Liquid hypochlorite disinfectant, deodorant,
10-32	Foundry patterns of wood (second edition).	00 00.	and germicide.
	Staple vitreous china plumbing fixtures	69-38.	Pine oil disinfectant.
40 00.	(second edition).		Phenolic disinfectant (emulsifying type)
21 - 39.	Interchangeable ground-glass joints, stop-		(second edition) (published with CS71-41).
	cocks, and stoppers (fourth edition). Builders' hardware (nontemplate) (second	71-41.	Phenolic disinfectant (soluble type) (second
22 - 40.	Builders' hardware (nontemplate) (second		edition) (published with CS70-41).
	edition).	72-38.	edition) (published with CS70-41). Household insecticide (liquid spray type).
23-30.	Feldspar.	73-38.	Old growth Douglas fir standard stock doors.
24 - 30.	Standard screw threads.		Solid hardwood wall paneling.
25 - 30.	Special screw threads.		Automatic mechanical draft oil burners.
	Aromatic red ccdar closet lining.		Hardwood interior trim and molding.
	Mirrors (second edition).	77-40.	Sanitary cast-iron enameled ware.
28-32.	Cotton fabric tents, tarpaulins, and covers.	78-40.	Ground-and-polished lenses for sun glasses
	Staple seats for water-closet bowls.		(second edition) (published with CS79-40).
30-31.	Colors for sanitary ware.	79-40.	Blown, drawn, and dropped lenses for sun
31-38.	Wood shingles (fourth edition).		glasses (second edition) (published with
	Cotton cloth for rubber and pyroxylin coating.	00 41	CS78-40).
	Knit underwear (cxclusive of rayon). Bag, case, and strap leather.	00-41.	Electric direction signal systems other than semaphore type for commercial and other
35-21	Plywood (hardwood and eastern red cedar).		vehicles subject to special motor vehicle
	Fourdrinier wire cloth (second edition).		laws (after market).
	Steel bone plates and screws.	81-41	Adverse-weather lamps for vehicles (after
38-32	Hospital rubber sheeting.	01 11.	market).
	Wool and part wool blankets (second edition)	82-41.	Inner-controlled spotlamps for vehicles (after
	(withdrawn as commercial standard, July		market).
	14, 1941).	83-41.	Clearance, marker, and identification lamps
40 - 32.	Surgeons' rubber gloves.		_ for vehicles (after market).
	Surgeons' latex gloves.	84-41.	Electric tail lamps for vehicles (after market).
	Fiber insulating board (second edition).	85~41.	Electric license-plate lamps for vehicles (after
43-32.	Grading of sulphonated oils.	00 41	market).
	Apple wraps.		Electric stop lamps for vehicles (after market).
45-40.	Douglas fir plywood (domestic grades)	87-41.	Red electric warning lanterns.
	(fourth edition).	80 40	Liquid-burning flares.
	Hosiery lengths and sizes (third cdition).	90-	Hardwood stair treads and risers. (Reserved for power shovels and cranes).
47-34.	Marking of gold-filled and rolled-gold-plate	91-41	Factory fitted Douglas fir entrance doors.
	articles other than watch cases.		Cedar, cypress, and redwood tank stock lum-
48-40.	Domestic burners for Pennsylvania anthracite	02 -11.	ber.
	(underfeed type) (second edition).	93-41	Portable electric drills (exclusive of high fre-
49-34.	Chip board, laminated chip board, and mis-		quency).
	cellaneous boards for bookbinding purposes.	94-41.	Calking lead.
50-34.	Binders board for bookbinding and other		Lead pipe.
	purposes.	96-41.	Lead traps and bends.

NOTICE.—Those interested in commercial standards with a view toward accept-ing 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.

Ο

