# INTERNATIONAL STANDARD (1718)

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MEXCHAPOCHAS OPTAHUSALUS TO CTAHCAPTUSALUS ORGANISATION INTERNATIONALE DE NORMALISATION

# Rock drilling – Drill-rods and detachable bits for percussive drilling

Forage des roches - Fleurets et taillants amovibles pour forage percutant

#### First edition - 1974-06-01

### iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>ISO 1718:1974</u> https://standards.iteh.ai/catalog/standards/sist/5348d7c8-1382-4861-8063-2b5c95a09fbc/iso-1718-1974

#### UDC 622.233.5

Ref. No. ISO 1718-1974 (E)

#### FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up has the right to be represented on that Committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

Prior to 1972, the results of the work of the Technical Committees were published as ISO Recommendations; these documents are now in the process of being transformed into International Standards. As part of this process, Technical Committee ISO/TC 82 has reviewed ISO Recommendation R 1718 and found it suitable for transformation. International Standard ISO 1718 therefore replaces ISO Recommendation R 1718-1970. ISO 1718:1974

ISO Recommendation R 1718 was approved by the Member Bodies of 194 sist/5348d7c8-1382-4861following countries :

Australia
Austria
Belgium
Chile
Czechoslovakia
Egypt, Arab Rep. of
France
Germany
Greece

Hungary India Iran Israel Italy Korea, Rep. of Netherlands New Zealand Peru

Poland South Africa, Rep. of Spain Sweden Thailand Turkey United Kingdom Yugoslavia

No Member Body expressed disapproval of the Recommendation.

The Member Body of the following country disapproved the transformation of ISO/R 1718 into an International Standard :

Canada

◎ International Organization for Standardization, 1974 ●

Printed in Switzerland

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## iTeh STANDARD PREVIEW (standards.iteh.ai)

#### **1 SCOPE AND FIELD OF APPLICATION**

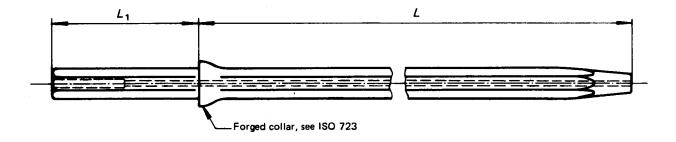
This International Standard specifies the basic dimensions for drill-rods and detachable bits for percussive drilling and the necessary dimensions for the tapered connections.i/catalog/standards/sist/5348d7c8-1382-4861-8063-2b5c95a09fbc/iso-1718-1974

#### 2 REFERENCES

ISO 722, Rock drilling – Hollow hexagonal drill-steels in bar form.

ISO 723, Rock drilling – Forged collared shanks and chuck bushings for hollow hexagonal drill-steels.

3 TAPERED DRILL-RODS

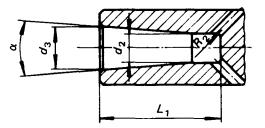


## iTeh STANDARD PREVIEW (standards.iteh.ai)

Hexagon (see 15	al drill-rod SO 722) <sub>ttps://st</sub>	Length of indards.iteh.ai	gth of shark, <u>21718,1974</u> iteh.av.catalog/standards/sist/5348d7c8-1382-48				
mm	in	8063-2 mm	lb5c95a09fbc, in	iso-1718-197 m	4 ft	in	Taper
				0,8	2	7	
				1,6	5	3	
				2,4	7	10	
22	7/8	108	4.25	3,2	10	6	4,8° × 22
				4,0	13	1	
				4,8	15	9	
				5,6	18	4	
				0,6	2		
				1,2	4		
		108	4.25	1,8	6		
22	7/8			2,4	8		7° × 22
				3,0	10		Ì
			3,7	12			
				4,3	14		
				0,6	2		
				1,2	4		
				1,8 6			
22	7/8			12° × 22			
				3,0	10		
				3,7	12		
				4,3	14		

**4 TAPERS** 





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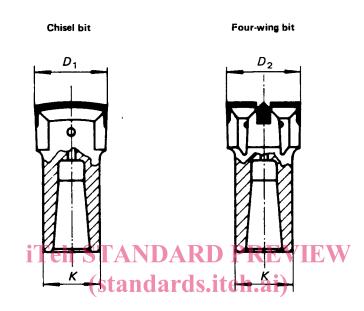
**Dimensions in millimetres** 

Taper		d <sub>1</sub> https://standards.itel		ISO <u>1718:1974</u> a ai/catalog/standards/sist		<b>d</b> 3 /5348d7c8-1382-4861-		41	R <sub>1</sub>	R <sub>2</sub>
Designation	angle a	Basic size	Tolerance	3-2Basic5a( size	9fbc/iso-17 Tolerance	18- <b>Basic</b> size	Tolerance	min.		
4,8° X 22	4°46′	19,1	0 0,2	19,0	+ 0,2	22,0	+ 0,2 0	51	1,5	6,3
7° × 22	7°	16,0	0 0,1	16,2	+ 0,1	21,8	+ 0,1 0	54	6	6,3
12° × 22	12°	14,9	0 -0,2	15,4	+ 0,2	22,0	+ 0,2 0	48	6	6,3

									Dimensi	ons in inches
	Taper		4 <sub>1</sub>		d <sub>2</sub>		<b>d</b> 3	L <sub>1</sub>	R <sub>1</sub>	R <sub>2</sub>
Designation	angle a	Basic size	Tolerance	Basic size	Tolerance	Basic size	Tolerance	min.		
4.8° × 22	4°46′	0.752	0 - 0.008	0.748	+ 0.008	0.866	+ 0.008	2.000	0.059	0.250
7° × 22	7°	0.628	0 - 0.004	0.639	+ 0.004 0	0.857	+ 0.004 0	2.125	0.234	0.250
12° × 22	12°	0.587	0 - 0.008	0.606	+ 0.008 0	0.866	+ 0.008	1.890	0.234	0.250

#### Dimensions in inches

#### **5 TAPERED BITS**

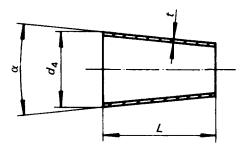


ISO 1718:1974 https://st.Kinkaxis.ft.Chailett.R2/st.3kmms(9s1384in)7c8-1382-4861-8063-2b5c95a09fbc/iso-1718-1974

Taper _		$D_1 + 0.3 - 0.1$ mm	$\begin{pmatrix} 0.012 \\ 0.004 \end{pmatrix}$ in		$D_2 \stackrel{+ 0,3}{_{0}} \operatorname{mm} \begin{pmatrix} 0.012 \\ 0 \end{pmatrix}$ in					
	Nomi	nal size	Basi	c size	Nomi	nat size	Basic size			
	mm	in	mm	in	mm	in	mm	in		
	36	1.437 5	36	1.417	36	1.437 5	36	1.417		
4,8° × 22	40	1.562 5	40	1.575	40	1.562 5	40	1.575		
	45	1.75	45	1.772	45	1.75	45	1.772		
	-	-	-	_	32	1.25	31,75	1.250		
		-	-	-	35	1.375	34,92	1.375		
7° × 22	-	-	-	-	38	1.5	38,10	1.500		
	-	-	-	-	41	1.625	41,28	1.625		
	-	-	-	-	45	1.75	44,45	1.750		
	_	_	_	-	32	1.25	31,75	1.250		
	-	-	-	-	35	1.375	34,92	1.375		
12° × 22	-	-	-	-	38	1.5	38,10	1.500		
	· _	-	-	-	41	1.625	41,28	1.625		
	-	-	-	-	45	1.75	44,45	1.750		

#### 6 THIMBLES

NOTE - The use of thimbles is recommended.



**Dimensions** in inches

Taper	Taper angle α	d <sub>4</sub>	L	t		Taper	Taper angle α	d <sub>4</sub>	L	t
		+ 0,25 0	eh 39		RI	) PRF	<b>VIEV</b>	V + 0.010 0	+ 0.063 0	± 0.004
7° × 22	7°	21,60	38,1 (\$1	andar	ds.	178x222	<b>7</b> °	0.850	1.500	0.024

**Dimensions in millimetres** 

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