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STANDARD

10098

First edition
1992-10-01

**Wireline diamond core drilling equipment —
System CSSK**

*Équipement de forage au diamant à ligne à câble avec carottage —
Système CSSK*



Reference number
ISO 10098:1992(E)

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Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75% of the member bodies casting a vote.

International Standard ISO 10098 was prepared by Technical Committee ISO/TC 82, *Mining*, Sub-Committee SC 6, *Diamond core drilling equipment*.

Annex A forms an integral part of this International Standard. Annexes B and C are for information only.

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Introduction

Wireline diamond core drilling equipment (CSSK system) is intended for independent use as well as for use in combination with system C equipment (see ISO 8866), designed for conventional diamond drilling.

Section 1 covers material and dimensions of wireline drilling equipment. Section 2 covers types and dimensions of gauges intended to check wireline drill rod threads.

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Wireline diamond core drilling equipment — System CSSK

Section 1: General

1.1 Scope

Section 1 of this International Standard specifies the material for and dimensions of equipment for wireline diamond core drilling in solid or weakly fissured medium hard or hard formations to depths of 1 200 m to 1 500 m.

NOTE 1 Cutting materials other than diamond may be used.

It applies to equipment with outer bit diameters of 46 mm, 59 mm, 76 mm and 93 mm with corresponding core diameters from 24 mm to 59 mm.

Section 1 of this International Standard specifies the main dimensions of the following equipment:

- a) drill rods,
- b) diamond bits,
- c) reaming shells,
- d) core-lifter cases,
- e) core lifters,
- f) outer core tubes,
- g) retractable (inner) core tubes.

NOTE 2 Holes drilled by CSSK equipment are cased by System C casings (see ISO 8866¹⁾).

1.2 Designation

The designation of items complying with this International Standard comprises the name of the item,

the letters CSSK and the corresponding core bit diameter value.

EXAMPLE

Core bit CSSK59

1.3 Materials

CSSK equipment shall be manufactured from materials which in the manufactured items provide mechanical properties not less than those given in table 1.

Table 1 — Minimum mechanical properties of the materials

Item	Tensile strength	Yield stress	Percentage elongation after fracture
	R_m N/mm ² (MPa)	R_e N/mm ² (MPa)	A %
Drill rods	735	540	12
Tubes of core barrels	690	490	12
Other items	Not specified		

1.4 Dimensions and tolerances

The main dimensions of system CSSK equipment are given in table 2. Symbols for the dimensions are given in table 3. Other dimensions and tolerances

1) ISO 8866:1991, *Rotary core diamond drilling equipment — System C*.