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*\*This standard references other standards*  
Edition 2  
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**CKS**

**CKS 596**

**Scholastic stationery**

## **CKS 596**

Ed. 2

### **Notice**

This specification was approved by the Department of Trade and Industry in February 1998.

Except for purposes of tender or contract no person may claim or create the impression that commodities comply with this specification.

### **Foreword**

Edition 2 cancels and replaces the first edition (CKS 596:1984).

**Attention is drawn to the normative references given in clause 2 of this specification. These references are indispensable for the application of this specification.**

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## **Scholastic stationery**

### **1 Scope**

This specification covers several types of books and sheets of paper intended for scholastic and related uses. It specifies the covers, the bindings, the grades of paper and the types of ruling.

NOTE – The information to be specified in tender invitations and in each order or contract is listed in annex A.

### **2 Normative references**

The following standards contain provisions which, through reference in this text, constitute provisions of this specification. All standards are subject to revision and, since any reference to a standard is deemed to be a reference to the latest edition of that standard, parties to agreements based on this specification are encouraged to take steps to ensure the use of the most recent editions of the standards indicated below. Information on currently valid national and international standards can be obtained from the South African Bureau of Standards.

ISO 186, *Paper and board – Sampling to determine average quality.*

ISO 187, *Paper, board and pulps – Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples.*

ISO 216, *Writing paper and certain classes of printed matter – Trimmed sizes – A and B series.*

ISO 353, *Processed writing paper and certain classes of printed matter – Method of expression of dimensions.*

ISO 534, *Paper and board – Determination of thickness and apparent bulk density or apparent sheet density.*

ISO 536, *Paper and board – Determination of grammage.*

ISO 1974, *Paper – Determination of tearing resistance (Elmendorf method).*

ISO 2470, *Paper and board – Measurement of diffuse blue reflectance factor (ISO brightness).*

ISO 2471, *Paper and board – Determination of opacity (paper backing) – Diffuse reflectance method.*

ISO 2758, *Paper – Determination of bursting strength.*

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ISO 4046, *Paper, board, pulp and related terms – Vocabulary*.

ISO 9184-3, *Paper, board and pulps – Fibre furnish analysis – Part 3: Herzberg staining test*.

SABS 785, *Ballpoint pens*.

SABS method 405, *Textiles – Colourfastness to artificial light – Xenon arc fading lamp test*.

### 3 Definitions and nomenclature

#### 3.1 General

For the purposes of this specification, the definitions given in 3.2, the nomenclature pertaining to books as indicated in figure 8, and the nomenclature given in ISO 216, ISO 353 and ISO 4046 apply, with the provision that the definitions given in 3.2 shall be preferred over possible alternative definitions given in the ISO specifications.

#### 3.2 Definitions

**3.2.1 acceptable:** Acceptable to the purchaser.

**3.2.2 chemical:** When used to describe paper or paper fibres, denotes a derivation from chemical pulp.

**3.2.3 chemical pulp:** Defined as in ISO 4046, but with the provision that it may contain at most 5 % by mass of mechanical pulp.

**3.2.4 defective:** A corrugated board container, a packet, a book, a sheet of paper, or a group of books or group of sheets of paper of which the average property has been determined, that fails in one or more respects to comply with the relevant requirements of this specification.

**3.2.5 grammage:** The mass per unit area of sheet material, expressed in grams per square metre.

**3.2.5.1 grammage, actual:** The average grammage obtained on a sample of paper under specified test conditions and that would normally be within  $\pm 5$  % of the nominal grammage.

**3.2.5.2 grammage, nominal:** The designated grammage of paper, that is used for reference purposes.

**3.2.6 leaf:** That part of a sheet of paper in a book which extends from the binding edge of the book towards the front edge of the book.

**3.2.7 lot:** At least five containers or packets containing nominally identical books, or at least five containers or packets containing nominally identical sheets of paper.

**3.2.8 mechanical:** When used to describe paper or paper fibres, denotes a derivation from mechanical pulp.

**3.2.9 page:** One of the opposite faces of a leaf.

**3.2.10 quad:** Ruling of a page into nominally 7 mm squares, commonly called "quadruling".

## 4 Materials

### 4.1 Paper

All paper shall

- a) comply with the relevant requirements of table 1,
- b) be acceptably free from defects such as fibre bundles, holes, wood splinters, specks and breaks, and
- c) accept writing media such as pencils and ballpoint pens that comply with the requirements of SABS 785, without exhibiting any strike-through or undue signs of feathering or spread.

**Table 1 — Requirements for physical properties of writing and drawing paper**

1	2	3	4	5	6	7
Property	Writing paper				Drawing paper	Test method subsection
Grade	Grade A (Chemical wove)	Grade B (Mechanical wove)	Grade C (Chemical cartridge)	Grade D (Newsprint)	(Chemical cartridge)	9.5.6
Grammage, g/m <sup>2</sup>						
a) Nominal	58	60	105	48,8	90	–
b) Actual, min.	55	57	100	46,4	85	9.5.1
Bursting strength, kPa, min.	90	65	90	40	90	9.5.10
Opacity, %, min.	78	90	–	90	–	9.5.9
Brightness, %, min.						
a) Initial	75	65	80	–	80	9.5.7
b) After aging	–	50	–	–	–	9.5.8
Colour	White	Cream	White	Natural	White	–

### 4.2 Additional requirement for drawing paper

In addition to complying with the requirements of 4.1, drawing paper shall accept all commonly used drawing media without exhibiting undue signs of strike-through, feathering or spread.

### 4.3 Interleaving paper

Interleaving paper shall be light-weight, of natural colour, uncreased and acceptably free from other defects that could impair its serviceability.

### 4.4 Covers

#### 4.4.1 Soft covers

The material for soft covers shall be a paper that complies with the requirements given in table 2, appropriate to the type of soft cover. In the case of S0 material and S1 material for books for external examinations, the colour shall be as specified by the purchaser.