



MALAYSIAN STANDARD

MS EN 643:2021 (P)

**Paper and board - European list of standard
grades of paper and board for recycling**

ICS: 85.060

Descriptors: paper, board, recycling, pulp, standard grades

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DEPARTMENT OF STANDARDS MALAYSIA

DEVELOPMENT OF MALAYSIAN STANDARDS

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For further information on Malaysian Standards, please contact:

Department of Standards Malaysia
Level 4 – 7, Tower 2, Menara Cyber Axis
Jalan Impact, Cyber 6
63000 Cyberjaya
Selangor Darul Ehsan
MALAYSIA

Tel: 60 3 8008 2900
Fax: 60 3 8008 2901
<http://www.jsm.gov.my>
E-mail: central@jsm.gov.my

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Committee representation

The National Standards Committee on Chemicals and Materials (NSC B) under whose authority this Malaysian Standard was developed, comprises representatives from the following organisations:

Chemical Industries Council of Malaysia
Department of Agriculture Malaysia
Department of Chemistry Malaysia
Department of Minerals and Geoscience Malaysia
Department of Occupational Safety and Health Malaysia
Department of Standards Malaysia (Secretariat)
Malaysian Association of Standards Users
Malaysian Institute of Chemistry
Malaysian Paint Manufacturers' Association
Malaysian Pulp and Paper Manufacturers Association
Ministry of Domestic Trade, Co-operatives and Consumerism (Consumerism Standards Division)
Ministry of International Trade and Industry
Suruhanjaya Perkhidmatan Air Negara
Universiti Malaya
Universiti Sains Malaysia

The Technical Committee on Pulp, Paper and Boards (TC/B/1) which supervised the adoption of the EN Standard as Malaysian Standard consists of representatives from the following organisations:

Department of Chemistry Malaysia
Department of Standards Malaysia (Secretariat)
Ecopalm Paper Sdn Bhd
Forest Research Institute Malaysia
Free The Seed Sdn Bhd
GS Paperboard & Packaging Sdn Bhd
Malaysia Paper Association
Malaysian Pulp and Paper Manufacturers Association
Muda Paper Mills Sdn Bhd
Nibong Tebal Paper Mill Sdn Bhd
SIRIM QAS International Sdn Bhd
Stesen Penyelidikan MPOB/UKM
Universiti Kebangsaan Malaysia
Universiti Sains Malaysia

Co-opted:

Jabatan Alam Sekitar
Jabatan Pengurusan Sisa Pepejal Negara

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National foreword

The adoption of the EN Standard as a Malaysian Standard was recommended by the Technical Committee on Pulp, Paper and Boards under the authority of the National Standards Committee on Chemicals and Materials.

This Malaysian Standard is identical with EN 643:2014, *Paper and board - European list of standard grades of paper and board for recycling*, published by the European Committee for Standardization (CEN) with the exceptions as listed below.

- a) in the source text, "this European Standard" should read "this Malaysian Standard";
- b) the comma which is used as a decimal sign (if any), to read as a point;
- c) added in the following clauses;

Item	Clause/ Subclause	Text
Additional clause	2.8	kraft paper paper made almost entirely from kraft pulp Note: in some areas, the term "kraft paper" is also used to refer specifically to paper made essentially from unbleached softwood pulp produced by the kraft process. Such paper usually has higher mechanical strength than is obtainable by other known pulping processes from the same woods.
Additional clause	2.9	woodfree paper or board Freesheet paper or board Paper or board having, in principle, only chemical pulp in its fibre composition.
Additional clause	2.10	sulphate pulp A chemically prepared wood pulp by the sulfate process or kraft process using primarily sodium sulfide (Na ₂ S) and sodium hydroxide (NaOH). Also known as kraft pulp and usually produces strong papers.
Insertion of text	5.1 para. 2	To be read as The use of the "European Recovered Paper Identification System" (2008) is recommended. However, grade identification as per clause 4 shall be visibly marked on individual bale.

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d) insertion of text in para 6.2; and

Table 2 – Group 2, medium grades

Code	Name	Description	Non-paper components in % max.	Total unwanted material in % max.
2.05.00	ordinary sorted office paper	Description to be read as Paper, as typically generated by offices, shredded (width not less than 5 mm) or unshredded, printed, may contain coloured papers, with a minimum 60 % wood-free paper, free of carbon and principally free from carbonless copy paper (ccp)/no carbon required (NCR), less than 10 % unbleached fibres including manila envelopes and file covers, less than 5 % newspapers and packaging.	1	2
2.05.01	sorted office paper	Description to be read as Paper, as typically generated by offices, shredded (width not less than 5 mm) or unshredded, printed, may contain coloured papers, with a minimum 80 % wood free paper, free of carbon and principally free from carbonless copy paper (ccp)/no carbon required (NCR), less than 5 % unbleached fibres including manila envelopes and file covers.	1	2
2.06.00	ordinary sorted coloured letters	Description to be read as Paper, as typically generated by offices, shredded (width not less than 5 mm) or unshredded, lightly printed, mass coloured paper allowed, but no deep coloured papers, with a minimum of 70 % wood free paper, free of carbon and principally free of carbonless copy paper (ccp)/no carbon required (NCR), free of manila envelopes, file covers, newspapers and cardboard.	1	2
2.06.01	sorted coloured letters	Paper, as typically generated by offices, shredded (width not less than 5 mm) or unshredded, lightly printed, mass coloured paper allowed, but no deep coloured papers, with a minimum of 90 % wood free paper, free of carbon and principally free of carbonless copy paper (ccp)/no carbon required (NCR), free of manila envelopes, file covers, newspapers and cardboard.	1	2

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e) insertion of text in para 6.5:

Table 5 – Group 5, special grades

Code	Name	Description	Non-paper components in % max.	Total unwanted material in % max.
5.15.00	moulded pulp products	Moulded articles or items made from any pulp types either wood or non-wood pulps prepared by chemical or mechanical or hybrid pulping processes. The typical usages are for food products packaging, electrical goods packaging and others.	1	0

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