



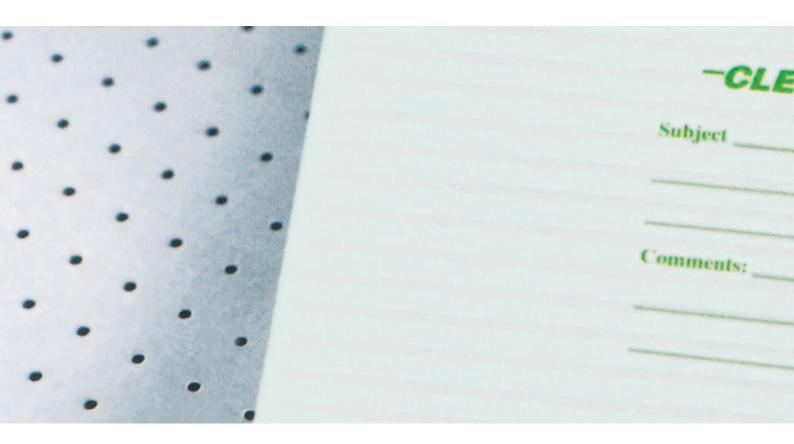




Chapter 9	
-----------	--

9.1	Interesting facts about cleanroom paper & accessories	160 -	- 161
9.2	Products paper as single sheets ring binders logbooks notebooks folders pens	162 -	- 164
9.3	Product recommendations referring to cleanroom classes		165
0.4	Overview matrix	166	16

Interesting facts about cleanroom paper & accessories



General information

The significance of paper as a particle emitting source in cleanrooms is often underestimated. Ordinary paper is made from cellulose. Hence mechanical abrasion, occurring on writing or printing on it, sheds a lot of particles. This is particularly true for notebooks and notepads which could contribute to the contamination of the cleanroom atmosphere with a simple touch.

In our range we offer you products made from specially cleanroom suitable materials for nearly all scopes of application.



- ▶ Copier and printer paper
- **▶** Ring binders
- **▶** Logbooks
- Notebooks
- **▶** Folders
- ▶ Felt pens, ballpoint pens



Cleanroom paper made of treated cellulose, as single sheets or bound Our paper is saturated and coated with a special polymer compound, which reduces particle emission and chemical outgassing.

Cleanroom paper shows the following features:

- good tensile strength
- good heat resistance
- suitable for most office printers and copiers
- can be written on with nearly every medium
- single sheets can be sterilised
- additionally perforated for various ring binders, notebooks and folders with blank, squared or lined sheets

Folders

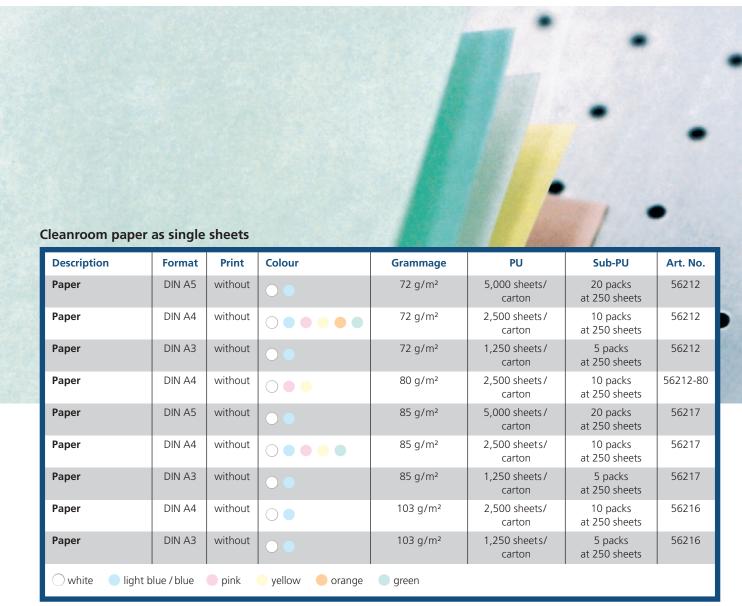
- made from special abrasion resistant polymer
- equipped with two lever-arch mechanism made from metal
- also available with ESD equipment

Cleanroom pens

- abrasion resistant felt pens and ball pens in various colour options
- optionally IPA resistant, fade and water-resistant, non-smearing, suitable for cold or wet surfaces
- available sterile (individually bagged) and non-sterile

Cleanroom paper & accessories

Paper/ring binders



Other grammages, sizes and colours as well as sterilised versions available on request!

Cleanroom ring binders (incl. 50 sheets of paper, double-sided printed)

Description	Format	Print	Colour	Grammage	PU	Sub-PU	Art. No.
Ring binder	DIN A5	lined		72 g/m²	40 pieces/ carton	8 packs at 5 pieces	56401-02
Ring binder	DIN A4	lined		72 g/m²	5 pieces	none	56401-02
Ring binder	DIN A5	squared		72 g/m²	5 pieces	none	56402-02
Ring binder	DIN A4	squared	•	72 g/m²	5 pieces	none	56402-02
light blue							

Other grammages and colours available on request!



Cleanroom logbooks





Within the scope of cleanroom appropriate documentation, cleanroom logbooks constitute a speciality.

They feature a clear pagination: every page is numbered consecutively (e.g. page 4 of 34) so that the removal of a page will stand out. A GMP appropriate documentation is thus easy to implement.

Based on the cellulose and latex-free CleanPrint 10® technology, which features amongst others excellent purity values, the logbooks can be created in customer specific layouts when sufficiently large quantities are required. Also the use of RFID technology can be considered.

Other features are good writing properties, partly chemical resistance and water resistance.

Cleanroom logbook (spiral bound)

(50 sheets, printed double-sided squared, pages individually numbered, optionally sterile)

Description	Format	Print	Colour	Grammage	PU	Art. No.
Logbook (spiral bound)	DIN A4	squared	•	72 g/m²	10 pieces individually packaged / carton	56471

Notepads / Folders / Pens



Cleanroom notepads and notebooks (20 sheets, double-sided printed)

Description	Format	Print	Colour	Grammage	PU	sterile	Art. No.
Notepad	80 x 160 mm	lined		64 g/m²	20 pieces/	no carton	56700
Notebook	DIN A4	lined		106 g/m²	100 pieces/	no carton	56710

Cleanroom folders (two lever-arch mechanism made of metal)

Description	Format	Print	Colour	Filling height	PU	sterile	Art. No.	
Folder (plastic)	DIN A4	-		35 mm	1 piece	no	56900	
Folder (plastic)	DIN A4	_	•	35 mm	1 piece	no	56902	
○ white ● black								

Cleanroom pens

Description	Colour	Line width	PU	sterile	Art. No.
Ball pen	• • •	approx. 0.8 mm	packed at 10 pieces in a double polybag	yes	56022
Felt pen (Fineliner)		approx. 0.4 mm	2 x 5 pieces, individually packed in a double polybag	yes	56010
Felt pen (Fineliner)	•	approx. 0.4 mm	10 pieces, individually packed in a double polybag	no	56015
Felt pen LabMarker™ IPA resistant	•	approx. 0.4 mm	2 x 5 pieces, individually packed in a double polybag	yes	56021
● blue ● black ● red					

Product recommendations referring to cleanroom classes



Cleanrooms and associated controlled environments – Part 1 Classification of air cleanliness by particle concentration EN ISO 14644-1 Hygiene zones (microbiological controlled areas) according to GMP

Article

All articles of the product classifications:

Paper

Ring binders

Logbooks

Notebooks

Folders

Cleanroom pens



Cleanroom compatible paper, cleanroom-suitable folders and pens can basically be recommended for all cleanroom classes from ISO 5 to ISO 9 (or low-dust rooms). Therefore, we have refrained from listing a corresponding table here – as in other chapters.

low dust

The same applies, of course, to hygiene zones A to D, if the articles have been sterilised in advance accordingly for the A/B zones.



Overview matrix

	Chap.	Art. No.	Description	Size	Print	Colour
	9,2	56212	Cleanroom paper	DIN A5	without	white, light blue
	9,2	56212	Cleanroom paper	DIN A4	without	white, light blue, yellow, pink, orange, green
Z	9,2	56212	Cleanroom paper	DIN A3	without	white, light blue
SHEE	9,2	56212-80	Cleanroom paper	DIN A4	without	white, yellow, pink
INGLE	9,2	56217	Cleanroom paper	DIN A5	without	white, blue
PAPER / SINGLE SHEETS	9,2	56217	Cleanroom paper	DIN A4	without	white, blue, yellow, pink, green
Z Z	9,2	56217	Cleanroom paper	DIN A3	without	white, blue
	9,2	56216	Cleanroom paper	DIN A4	without	white, blue
	9,2	56216	Cleanroom paper	DIN A3	without	white, blue
	9,2	56401-02	Cleanroom ring binder (50 sheets, double-sided printed)	DIN A5	lined	light blue
ERS	9,2	56401-02	Cleanroom ring binder (50 sheets, double-sided printed)	DIN A4	lined	light blue
RING BINDERS	9,2	56402-02	Cleanroom ring binder (50 sheets, double-sided printed)	DIN A5	squared	light blue
RING	9,2	56402-02	Cleanroom ring binder (50 sheets, double-sided printed)	DIN A4	squared	light blue
	9,2	56471	Cleanroom logbook, pages individually numbered (50 sheets, double-sided printed)	DIN A4	squared	white
NOTE	9,2	56700	Cleanroom notepad (20 sheets, double-sided printed)	80 x 160 mm	lined	light blue
BOG	9,2	56710	Cleanroom notebook (20 sheets, double-sided printed)	DIN A4	lined	light blue
FOLDERS	9,2	56900	Folder (plastic) two lever-arch mechanism, filling height 35 mm	DIN A4	-	white
FOL	9,2	56902	Folder (plastic) two lever-arch mechanism, filling height 35 mm	DIN A4	-	black
	9,2	56022	Ball pen, sterile line width approx. 0.8 mm	-	-	blue, black, red
SN	9,2	56010	Felt pen (Fineliner), sterile line width approx. 0.4 mm		-	blue
PENS	9,2	56015	Felt pen (Fineliner) line width approx. 0.4 mm	-	-	blue
	9,2	56021	Felt pen LabMarker™, sterile , IPA resistant, line width approx. 0.4 mm	-	-	black

Cleanroom paper is available on request in other grammages, sizes and colours as well as in sterilised versions!



Grammage	PU	Sub-PU	Carton quantity
72 g/m²	5,000 sheets/carton	20 packs at 250 sheets	5,000 sheets
, <u> </u>	Spece Sheeta, carton	20 pacito de 250 streeto	3,000 3003
72 g/m²	2,500 sheets/carton	10 packs at 250 sheets	2,500 sheets
72 . / 3	4.250 - 1 - 1 - 1 - 1 - 1	5 1 250 de de	4.250 -
72 g/m²	1,250 sheets/carton	5 packs at 250 sheets	1,250 sheets
80 g/m²	2,500 sheets/carton	10 packs at 250 sheets	2,500 sheets
	•	· ·	·
85 g/m²	5,000 sheets/carton	20 packs at 250 sheets	5,000 sheets
05 -/2	2 500 shares / serten	10 due et 250 ek eete	2 500
85 g/m²	2,500 sheets/carton	10 packs at 250 sheets	2,500 sheets
85 g/m²	1,250 sheets/carton	5 packs at 250 sheets	1,250 sheets
103 g/m²	2,500 sheets/carton	10 packs at 250 sheets	2,500 sheets
103 g/m²	1,250 sheets/carton	5 packs at 250 sheets	1,250 sheets
103 g/111-	1,250 Sheets/Carton	5 backs at 550 streets	1,250 Sileets
72 g/m²	40 pieces/carton	8 packs at 5 pieces	40 pieces
72 g/m²	5 pieces	none	100 pieces
72 g/m²	5 pieces	none	40 pieces
, <u> </u>	5 pieces		io pieces
72 g/m²	5 pieces	none	100 pieces
=0 ()			
72 g/m²	10 pieces/bag individually packed	none	10 pieces
	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
64 g/m²	10 notepads at 20 sheets/carton	none	10 pieces
106 g/m²	100 notebooks at 20 sheets/carton	none	100 pieces
	1 piece	none	10 pieces
-	i piece	none	To pieces
-	1 piece	none	10 pieces
-	10 pieces	packed at 10 pieces in a double polybag	100 pieces
	10 pieces	2 x 5 pieces, individually airtight packed	10 pieces
	To pieces	in a double polybag	To pieces
-	10 pieces	individually packed	10 pieces
		in a double polybag	
-	10 pieces	2 x 5 pieces, individually airtight packed in a double polybag	10 pieces