SB TECH.

Filter Paper & Pad - Deep Dive

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Filter Pads / Papers

- Available in Machine Made as well Human Made forms
- Manufacturing process (machine made or manual) defines the characteristics of the Filter Pad / Paper

Character	Machine Made	Hand Made
Formation	Uniform / Soft	Rough / Uneven
Thickness	Uniform / Predefined	Uneven
Drying methodology	Dried in heated chamber	Sun dried
Bust Factor	High	Low / Medium
Flow Factor	Medium / Slow	Fast

Filter Pads / Papers

Broadly Pulps are classified into below categories:

- Cotton Pulp
  - Manufactured from Cotton plants and is 100% virgin
  - Has long fibers for fine filtration (ex: final filtration)
- Cotton Rag Pulp
  - Mixture of Cotton Pulp & Rag
  - Used as pre-filtration medium (ex: solvents)
- Cotton Linter Pulp
  - Cotton linters are fine, silky fibers which adhere to the seeds of the cotton plant after ginning
- Wood Pulp
  - Pulps made out of wood or fiber crops
  - Type of wood (hardwood or softwood) defines the fiber length (short or long)

Filter Papers (Grade - PPN)

- Filter Papers are manufactured out of wood pulp
- Suitable for **fast / coarse filtration**
- GSM and Porosity of the Filter Paper define the flow factor of the material to be filtered
- Widely used in Pharmaceutical, Food, Beverages, Chemicals & Cosmetics industries

Grade	Thickness (mm)	GSM	Porosity (sec)	B.F (kg/cm^2)
PPN 01	0.3	100	5	4
PPN 15	0.4	150	7	4
PPN 02	0.6	200	10	4

Filter Pads (Grade - MMCR)

- Machine Made and mixture of Cotton Pulp and Rag
- Used in **rough / normal filtration** process (ex: filtration of solvents before they are fed into production plant)
- Suitable for Pharmaceutical (API Division) and Food industries, etc

Grade	Thickness (mm)	GSM	Porosity (sec)	B.F (kg/cm^2)
MMCR 1	1	500	5	4
MMCR 15	1.5	650	7	7
MMCR 2	2	800	8	10
MMCR 25	2.5	1100	8	10
MMCR 3	3	1300	10	10

Filter Pads (Grade - MMC)

- Machine Made and mixture of Cotton & Wood pulps
- Used in **clarifying / polishing** filtration process (ex: filtration of end product
- Used to improve the clarity (look and feel) of the passing through liquid
- Suitable for Pharmaceutical, Food & Beverages industries

Grade	Thickness (mm)	GSM	Porosity (sec)	B.F (kg/cm^2)
MMC 05	0.5	250	4 to 5	3
MMC 01	1	500	6 to 7	5
MMC 15	1.5	700	10	5
MMC 02	2	850	8	7
MMC 25	2.5	1050	14	10

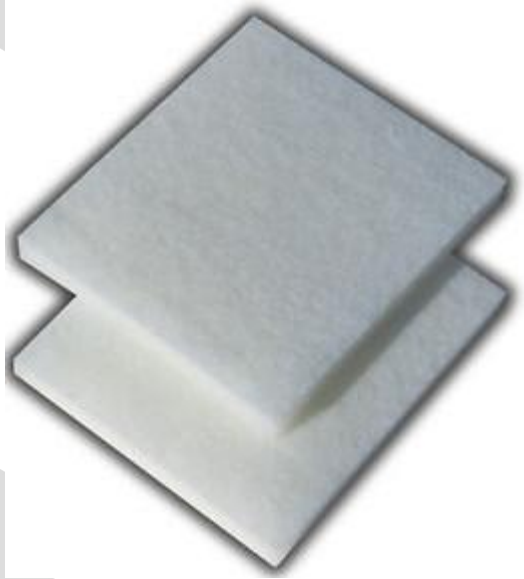
Filter Pads (Grade - MMCW & SW)

- Machine Made and mixture of Cotton & Wood pulps
- Used in **fine filtration** process
- Suitable for **intravenous (IV) & intramuscular (IM)** production units
- Suitable for Pharmaceutical, Liqueur and Beverages industries

Grade	Thickness (mm)	GSM	Porosity (sec)	B.F (kg/cm^2)
MMCW 15	1.5	750	20	7
MMCW 02	2.0	950	25	10
MMCW 25	2.5	1250	25	10
SW 15	1.2	900	120	10

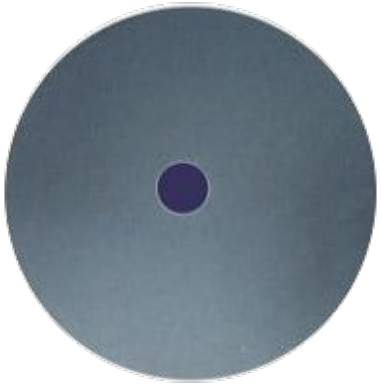
High Temperature Filter Pad

- Filter pad which **can withstand up to 250°** celsius temperature
- Widely used in the deep filtration scenarios like:
  - **High temperature cooking oil filtration** for the food industries / star hotels
  - High temperature liquid/chemical which requires fine / deep filtration for the removal of residues / foreign particles
- **First manufacturer in India** to produce this product line with the collaboration of technical experts and academic scientists



Activated Carbon Pad

- Carbon has been used for many years to remove color and odor from liquids
- In certain applications the **loose carbon can be replaced with a carbon impregnated filter pad** (plus a plate and frame filter press)
- This eliminates the need of dumping loose carbon into a mixing tank, and then scraping the carbon off later and **reduces the cost**
- It can be manufactured with **different grades of carbon**, allowing to **help optimize the filtration**



Grade	Thickness (mm)	GSM	Porosity (sec)	B.F (kg/cm^2)
BK 01	2	800	12	8

Thank You!