Filter materials type CA for Nederman cartridge filters

Dust can be heavy or light, fine or coarse, sticky or free flowing, damp or dry or can have an electrostatic charge. It is thus very important to choose the correct cartridge type when engineering a dust control system.

Filter material type CA100

Quality	Polyester standard	
Material (Substrate)	Spundbond Polyester	
Colour / Characteristics	White	
Dust flow side	Optional	
Weight	250	g/m^2
Air permeability	490	$m^3/m^2/h$ at 200 Pa
Max. operating temperature	75	°C
Intermittent peak temperature	75	°C
Dust class	M	DIN EN 60335-2-69
MERV rating	11	ASHRAE 52.2
Electrostatic behaviour	n.a.	
Moisture influence	n.a.	
Air to cloth ration recommended	20 - 100	$m^3/m^2/h$ – dependent on dust characteristics
Characteristics	Smooth surface	
Applications	Filtration of fine dust types: metal, chemical, cement, food, paper, plastic, pharmaceutical, welding smoke, shot blasting, foundry dust, mineral processing and many more	
Remarks	Process data must be available when choosing filter material	

Filter material type CA140

Quality	Polyester with alu-coating, antistatic	
Material (Substrate)	Spundbond Polyester	
Colour / Characteristics	White / Silver-Grey	
Dust flow side	Silver Grey	
Weight	260	g/m^2
Air permeability	540	$m^3/m^2/h$ at 200 Pa
Max. operating temperature	75	°C
Intermittent peak temperature	75	°C
Dust class	M	DIN EN 60335-2-69
MERV rating	10	ASHRAE 52.2
Electrostatic behaviour	$<1x10^3\ \Omega$	
Moisture influence	n.a.	
Air to cloth ratio recommended	20 - 100	$m^3/m^2/h$ – depending on dust characteristics
Characteristics	Antistatic with alu-coating Oleophobic and hydrophobic	
Applications	Filtration of fine dust types: metal, chemical, cement, food, paper, plastic, pharmaceutical, welding smoke, shot blasting, foundry dust, powder, mineral processing and many more	
Remarks	Process data must be available when choosing filter material	

Filter material type CA141

Quality	Polyester with PTFE-coating, antistatic	
Material (Substrate)	Spundbond Polyester	
Colour / Characteristics	White / Silver-Grey	
Dust flow side	Silver Grey	
Weight	224	g/m^2
Air permeability	486	$m^3/m^2/h$ at 200 Pa
Max. operating temperature	75	°C
Intermittent peak temperature	75	°C
Dust class	M	DIN EN 60335-2-69
MERV rating	9	ASHRAE 52.2
Electrostatic behaviour	$<1x10^3\ \Omega$	
Moisture influence	n.a.	
Air to cloth ratio recommended	20 - 100	$m^3/m^2/h$ – depending on dust characteristics
Characteristics	Antistatic with PTFE-coating	
Applications	Filtration of fine dust types: metal, chemical, cement, food, paper, plastic, pharmaceutical, welding smoke, shot blasting, foundry dust, powder, mineral processing and many more	
Remarks	Process data must be available when choosing filter material	

Filter material type CA150

Quality	Polyester with PTFE-membrane	
Material (Substrate)	Spundbond Polyester	
Colour / Characteristics	White	
Dust flow side	Smooth PTFE membrane side	
Weight	256	g/m^2
Air permeability	308	$m^3/m^2/h$ at 200 Pa
Max. operating temperature	75	°C
Intermittent peak temperature	75	°C
Dust class	M	DIN EN 60335-2-69
MERV rating	16	ASHRAE 52.2
Electrostatic behaviour	n.a.	
Moisture influence	n.a.	
Air to cloth ratio recommended	20 - 100	$m^3/m^2/h$ – depending on dust characteristics
Characteristics	PTFE-membrane	
Applications	Filtration of fine dust types: metal, chemical, cement, food, paper, plastic, pharmaceutical, welding smoke, shot blasting, foundry dust, powder, mineral processing and many more	
Remarks	Process data must be available when choosing filter material	

Filter material type CA175

Quality	Blended cellulose paper	
Material (Substrate)	Cellulose 80 % / Polyester 20 %	
Colour / Characteristics	White with blue stripes	
Dust flow side	The side with blue stripes	
Weight	130	g/m^2
Air permeability	640	$m^3/m^2/h$ at 200 Pa
Max. operating temperature	60	°C
Intermittent peak temperature	60	°C
Dust class	M	DIN EN 60335-2-69
MERV rating	11	ASHRAE 52.2
Electrostatic behaviour	n.a.	
Moisture influence	n.a.	
Air to cloth ratio recommended	10 - 50	$m^3/m^2/h$ – dependent on dust characteristics
Characteristics	Flame retardant	
Applications	Filtration of fine dust types: laser- and plasma cutting, welding smoke, etc.	
Remarks	Process data must be available when choosing filter material	

Filter material type CA178

Quality	Blended cellulose paper with nanofiber layer	
Material (Substrate)	Cellulose 80 % / Polyester 20 %	
Colour / Characteristics	White with yellow stripes	
Dust flow side	The side with yellow stripes	
Weight	120	g/m^2
Air permeability	670	$m^3/m^2/h$ at 200 Pa
Max. operating temperature	60	°C
Intermittent peak temperature	60	°C
Dust class	M	DIN EN 60335-2-69
MERV rating	15	ASHRAE 52.2
Electrostatic behaviour	n.a.	
Moisture influence	n.a.	
Air to cloth ratio recommended	10 - 50	$m^3/m^2/h$ – dependent on dust characteristics
Characteristics	Flame retardant	
Applications	Filtration of fine dust types: laser- and plasma cutting, welding smoke, etc.	
Remarks	Process data must be available when choosing filter material	

Filter material type CA190

Quality	Polyester with PTFE-coating	
Material (Substrate)	Spundbond Polyester	
Colour / Characteristics	White	
Dust flow side	Optional	
Weight	250	g/m^2
Air permeability	500	$m^3/m^2/h$ at 200 Pa
Max. operating temperature	75	°C
Intermittent peak temperature	75	°C
Dust class	M	DIN EN 60335-2-69
MERV rating	9	ASHRAE 52.2
Electrostatic behaviour	n.a.	
Moisture influence	Low	
Air to cloth ratio recommended	20 - 100	$m^3/m^2/h$ – depending on dust characteristics
Characteristics	Smooth and non-sticky surface, PTFE-coating Oleophobic and hydrophobic	
Applications	Filtration of fine dust types: metal, chemical, cement, food, paper, plastic, pharmaceutical, welding smoke, shot blasting, foundry dust, powder, mineral processing and many more	
Remarks	Process data must be available when choosing filter material	