Ahlstrom Extia®

Advanced synthetic media with high particulate efficiency for Air Pollution Control cartridges in challenging environment

Air pollution control (APC) and dust collection filter media are used in a wide range of industrial applications to reduce or eliminate the emission of particles into the atmosphere, protecting people and environment.

Created by Ahlstrom specifically for APC applications, **Extia®** is a 100% synthetic, highly durable, pulse cleanable media with nanofibers or ePTFE membrane efficiency layer, that offers extended filtration lifetime, whilst effectively removing fine particles at a low pressure drop.

With an isotropic surface and best mechanical properties, **Extia®** media combine the benefits of spunbonds, in terms of durability with the filtration performances of a synthetic wetlaid media having 100% effective surface.

Ahlstrom **Extia®** delivers the most advanced solution for APC cartridges working in challenging operating conditions, such as welding fumes, plasma or laser cutting, powder coating...

Benefits

- **Outstanding durability** – Extia® intrinsic strength and strong bonding with nano fibers or ePTFE membrane.
- **Isotropic media** – 20% to 30% more effective filtration surface compared to point-bonded spunbond.
- **Extended filtration lifetime** – excellent dust cake release combined with optimal air-to-cloth ratio.
- **Highly efficient on smallest particles** – protecting the base media against fine particles migration and reducing the emissions to the atmosphere.

Ahlstrom Extia®

Extia® is a unique product platform combining outstanding mechanical strengths with excellent filtration performances; an ideal solution for air pollution control cartridges using heavy spunbonds and installed in challenging environments. With a 100% synthetic structure, it delivers an excellent behavior and durability in all humidity conditions for longer lifetime. The isotropic structure of Extia® increases by 20% to 30% the usable media surface compared to a point-bonded spunbond; it dramatically reduces the air-to-cloth ratio which has many advantages: lower initial pressure drop, less particles migration in the base media, better dust cake release and reduced pulse frequency for an overall lower total cost of ownership. These benefits give the opportunity to end users to increase the airflow of existing dust collector units or to extend the filter maintenance intervals.

Extia® media ideally perform when laminated with high particulate efficiency layers; this confers improved pulse jet cleaning behavior due to predominant surface filtration and better dust cake release for longer lifetime.

Extia® 1200 is laminated with a nanofiber particulate efficiency layer reaching EN1822 E10 at very low pressure drop, delivering better protection and energy savings. The use of state-of-the art nanofiber deposition provides superior bonding between the nanofibers and base media, ultimately delivering outstanding durability and performances. A recommended choice for applications with specific regulatory constraints and when fine particles have to be removed or recovered such as welding fumes, plasma or laser cutting, powder coating industries.

Extia® 1420 combines the advantages of Extia® 1200 with an aluminum vapor deposition for maximum safety in environments where explosion risk can occur (tested according to IEC/TS 60079-32-1 and TRGS 727). This media is the ideal solution for applications such as aluminum blasting, powder coating, metal works or flammable dusts handling.

Extia® 1330 is laminated with an ePTFE membrane reaching EN1822 E12 at low pressure drop, delivering highest protection in corrosive atmosphere or with critical dusts. The superior bonding between the ePTFE membrane and the base layer ultimately delivers outstanding durability and performance. A recommended choice for applications with highest regulatory constraints and where sticky, abrasive, high value dusts have to be collected for example in chemical, mineral, rubber industries.

	Basis Weight	Efficiency		Thickness	Burst Strength	Air Permeability	Stiffness MD	Antistatic
Grades	g/m²	EN60335	EN1822	µm	KPa	L/m²/s @200Pa	g	TRGS 727
Extia® 1200	200	M	E10	570	1471	184	3.3	No
Extia® 1420	213	M	E10	580	1471	160	3.4	Yes
Extia® 1330	200	M	E12	580	1471	96	3.4	No

Contact Ahlstrom Sales: filtration@ahlstrom.com

www.ahlstrom.com

Disclaimer: The information supplied in this document is for guidance only and should not be construed as a warranty. All implied warranties are expressly disclaimed, including without limitation any warranty of merchantability of fitness for use. All users of the material are responsible for ensuring that it is suitable for their needs, environment and end use. All data is subject to change as Ahlstrom deems appropriate.

© Ahlstrom 2022