

PRESS RELEASE

AIRDUC® PUR 351 and 355 ExTra

A perfect view in hazardous areas with innovative transport hoses

Hose types that are electrically conductive or capable of electrostatic discharge are used whenever there is a tendency for explosive atmospheres to form. NORRES Schlauchtechnik, Gelsenkirchen, Germany has now come up with two novel polyurethane hoses that are not only capable of electrostatic discharge but also feature an electrically conductive inliner for optimal discharge of static electricity: AIRDUC® PUR 351 ExTra and AIRDUC® PUR 355 ExTra. What's more, the transparent wall of these electrically conductive inliner hoses allows the process to be observed at any time. This innovative product will make its debut at K 2007 in Dusseldorf from October 24 to 31.

When solids or liquids are transported, the hoses are often charged with static. Electrostatic charging occurs due to the friction of the material against the hose wall and within the medium. Transport hoses are subjected to high dynamic stresses during the course of the process and therefore need to be particularly reliable. Hoses that are electrically conductive or capable of electrostatic discharge eliminate the risk of ignition from static but also have certain disadvantages: hoses capable of electrostatic discharge are less effective than conductive hoses at discharging static electricity, while conductive hoses have a completely black wall that prevents the pumping process from being observed.

The newest inventions to emerge from the NORRES stable – AIRDUC® PUR 351 ExTra and AIRDUC® PUR 355 ExTra – are the only polyurethane hoses in the market to feature an inliner for optimal discharge of static electricity while at the same time allowing the pumping process to be observed. The electrically conductive inliner effectively puts an end to static charge in hazardous areas. And thanks to the transparent wall of the AIRDUC® hose, the medium remains permanently visible.

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Both hoses are designed with a spring steel wire firmly embedded in the wall and welded from spiral material. Providing the spiral is earthed, all ExTra hoses are capable of electrostatic discharge according to BGR 132. They unite high axial stiffness with vital flexibility. Owing to the smooth interior, the problem of medium settling on the hose surface is now a thing of the past. These innovative hose types additionally boast a high tensile strength and tear resistance as well as good resistance to oil, petrol and chemicals, contain neither plasticisers nor halogens and are flame-retardant.

AIRDUC® PUR 351 ExTra

With a wall thickness of 0.9 mm, AIRDUC® PUR 351 ExTra is extremely light and flexible, yet at the same time exhibits good resistance to abrasion. It is ideally suited as a transport hose not only for powder, fibres and chips but also for liquid or gaseous media in hazardous areas.

AIRDUC® PUR 355 ExTra

AIRDUC® PUR 355 ExTra is especially designed for abrasive solids such as pellets and for use in deep mines, tunnel construction or hazardous areas whenever a very high throughput is essential. With a wall thickness of 1.5 mm, AIRDUC® PUR 355 is the heavyweight out of the two hose types – exceptionally rugged and abrasion-proof.

These product innovations will be unveiled at the K 2007 fair in Dusseldorf from October 24 to 31. You can find NORRES in Hall 7.0, Stand No. A23.

Photos:

AIRDUC® PUR 351 ExTra and AIRDUC® PUR 355 ExTra

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