

OSNALINE® ANTISTATIC **NEW**



Safe tube bundles for the operation in explosion proof areas (EX-Zones)



KME's special products division includes a variety of specialised tube bundles known as OSNALINE®. These products are used for many industrial applications, in offshore facilities, in shipbuilding and in the building industry. This long tradition of tube bundle applications is one example of KME's unique developing and production potential.

OSNALINE® ANTISTATIC **NEW**

Safe tube lines in extraordinary endangered areas within the chemical and petrochemical industry are essential for the absolute reliable function of equipment and the safety of humans and environment by avoiding breakdowns and disasters. Especially in explosion proof areas (EX-Zones) an antistatic outer jacket is a strong protection to avoid the danger of ignition resulting from electrostatic charge, as clearly required by the TRBS (Technical rules for operating safety).

Reason enough for KME to design and patent an antistatic outer jacket for its highly recommended OSNALINE® tube bundles which is already available for the range for OSNALINE® heat traced bundles. So far it was common practice to use completely pre-assembled lines with a corrugated outer jacket made of polyamide (PA) which were only available in short lengths and could not be cut to size even when only slight modifications appeared on site. KME's **OSNALINE® ANTISTATIC** (patent approved and registered) tube bundles is a ready-to-use solution and available in long lengths including all necessary connection accessories as per customer request and can easily be adapted on-site.

Another decisive advantage of the new **OSNALINE® ANTISTATIC** tube bundles is a significant reduction of the common practice of individual acceptance by technical experts. KME's **OSNALINE® ANTISTATIC** tube bundles with their outer jacket of highly discharging TPU (Thermoplastic Polyurethane) and a specific resistance $<10^9 \Omega/\text{mtr}$ fit perfectly in installations in complex explosion proof areas (EX-Zones).

Electrically traced **OSNALINE® ANTISTATIC** tube bundles are available with a different number of inner tubes, in different sizes and with different options of electrical heat tracers. The excellent properties of the TPU jacket regarding bend ability during installation and temperature stability remain unchanged in comparison to KME's range of other OSNALINE® tube bundles with a standard outer jacket.

Applications

- heat traced lines for
 - sample extraction
 - process lines
- transportation lines

Size Ranges [mm]

Stainless Steel: 6x0.5 - 12.7x1.65

PTFE/PFA: 6x1.0 - 12.0x2.0

Materials

Tubes: Stainless Steel, PTFE, PFA

Insulation: thermo-, fibreglass-fleece

Outer jacket: TPU

Advantages

- self-regulating heaters (ex-proof)

Special Designs

- pre-assembling heating cable end fitting
- frost protection
 - electrical heat tracing: up to 150°C
- temperature maintenance
 - steam tracing: up to 500°C
- spring wire armoring
- tube in tube system



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