



6 reasons for Kalthoff Panel Filters in rail vehicles

1 Technical scope conditions

Kalthoff panel filters made of pleated, progressively-structured, thermally-bonded high-performance media convince by a **large filter surface** and at the same time **low pressure drops**. Particles are effectively separated with a positive effect on the **energy efficiency** of the filter.

Kalthoff panel filters GRISU WU and WU/5510 meet the required standard in rail vehicles and are available in the ISO groups **ISO Coarse 90%** (G4) and **ISO ePM₁₀ 70%** (M5) according to **DIN EN ISO 16890**.

2 Fire protection in accordance with EN 45545-2

In order to guarantee the safety of persons in rail vehicles, the compliance of **effective fire protection requirements** is a fundamental obligation.

Kalthoff panel filters GRISU WU and WU/5510 are certified to **EN 45545-2** resp. **DIN 5510-2**. We gladly provide these **certificates** to our customers.

3 Hygiene in accordance with VDI 6032

The Standard VDI 6032 requires the **application of inert materials** to prevent metabolisation by micro-organisms. Thus, the use of filters with cardboard frame is non-permissible.

The Kalthoff panel filters GRISU WU and WU/5510 are **fully-synthetic, hygienic and moisture-proof**. The requirements of **VDI 6032** are fulfilled.

4 Reduced maintenance costs

Kalthoff panel filters can be changed **quickly, easily and cleanly**. With the help of the FIBERPLAST frame, a proper fit into the device will be achieved. Leakages will be avoided so that particle penetrations are a „thing of the past“.

In addition, the maintenance intervals prolong with the long-standing service lives of Kalthoff panel filters considerably. The **maintenance costs** will be **cut enormously**. Kalthoff panel filters in fully synthetic design are also **fully combustible** and easy to dispose of.

5 Application-oriented manufacturing

The Kalthoff panel filters GRISU WU and WU/5510 are **available in numerous versions** and can be adapted to the available space conditions.

Our panel filters allow **optimal utilisation of the given installation space** while at the same time improving the filtration performance.

6 Memberships



Your partner for filter technology

