CASE STUDY

# HOT GAS FILTERS IN THE PLASTIC INDUSTRY

## IMPROVEMENT OF FILTRATION PROCESS IN THE FACTORY

**Challenge Analysis: Short filter lifespan and additional maintenance and waste**

Our client in the plastic industry used hot gas filters in part of the process to remove particles from a hot gas stream. These filters had a lifespan of four weeks, and once saturated, they had to be disposed of as waste. Replacing the gas filters was a labor-intensive task for the employees due to the weight of the filters and the typically very high temperatures around the filter housing in the factory.

**Interfilter's Advice: Multi-layer reusable hot gas filter**

On the advice of Interfilter and in consultation with the client, a multi-layer hot gas filter was developed and installed in the factory's filter housing. These gas filters feature a larger filter surface, a cleanable and therefore reusable filter medium, and are lighter in weight.

**Result: Reduced purchase, maintenance, and waste costs**

Thanks to filters with double the lifespan (a full eight weeks) and a cleanable medium, annual filter costs have been reduced by over 75%, and the client has seen a significant decrease in waste (and waste disposal) costs. Additionally, employees now need to replace filters less frequently, and the filters are much lighter, greatly improving working conditions.

## FACTS AND FIGURES