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Технические характеристики

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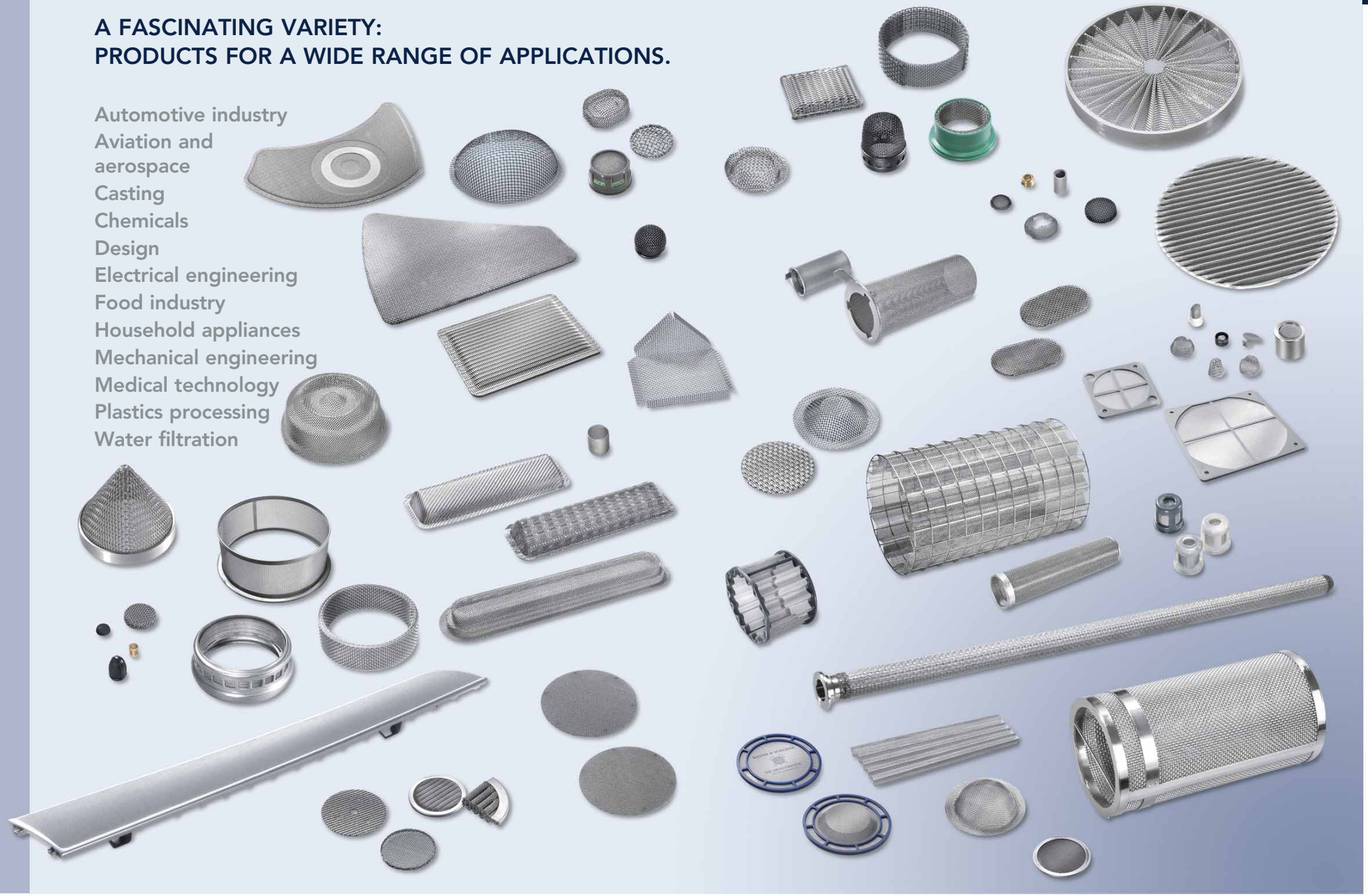
A FASCINATING VARIETY:
PRODUCTS FOR A WIDE RANGE OF APPLICATIONS.

Automotive industry
Aviation and aerospace
Casting
Chemicals
Design
Electrical engineering
Food industry
Household appliances
Mechanical engineering
Medical technology
Plastics processing
Water filtration

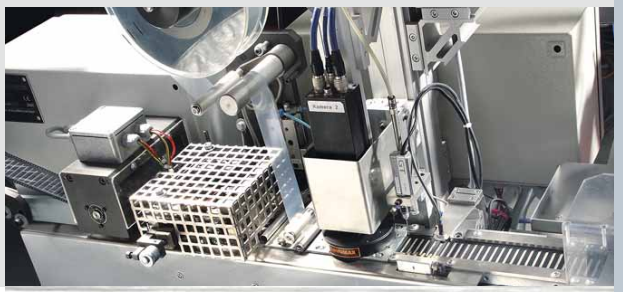


Cleaning
For rolled, coiled or single parts, various cleaning processes are available: degreasing and aqueous cleaning combined with ultrasonic cleaning as required.

Adhesion
Sealing and protection of welded joints, borders and seams of components. Depending on the application, using high-temperature food-grade adhesives.

Plastic injection moulding
Automatic or manual feeding, also for full integration of stamping and quality checking processes. Selection of plastic is as per customer requirements.

Packing
Manual or fully automatic, loose or single packing. Reusable or disposable packaging: solutions for all automation and process requirements.



Coned and tapered parts
Single or multiple layers, pleated or smooth surface. Components of this type can be produced as single parts or from partial segments, and if necessary, with supports and edge bordering.

Typical application areas:
Screening and classifying, filtration, or separation of various materials.

Packing
Multi-layered, rolled cylinders of mesh, consisting of one or more mesh specifications, as required. Edge bordering and face-side finishing prepared as required.

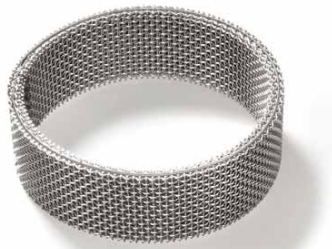
Typical application areas:
Fuel feeding, exhaust treatment and homogenisation of compressed air.

Plastic injection moulded parts
Wire mesh of various designs combined with injection-moulding for edge protection, sealing, joining, support or assembly elements, or for forming shapes.

Typical application areas:
Speaker covers, fuel filters, oil filters and many more.

Design mesh
Metal or hybrid mesh (metal/monofil) is back-moulded and foil laminated to create an adhesive component. The part can then be deep-drawn, with the possibility of creative back illumination.

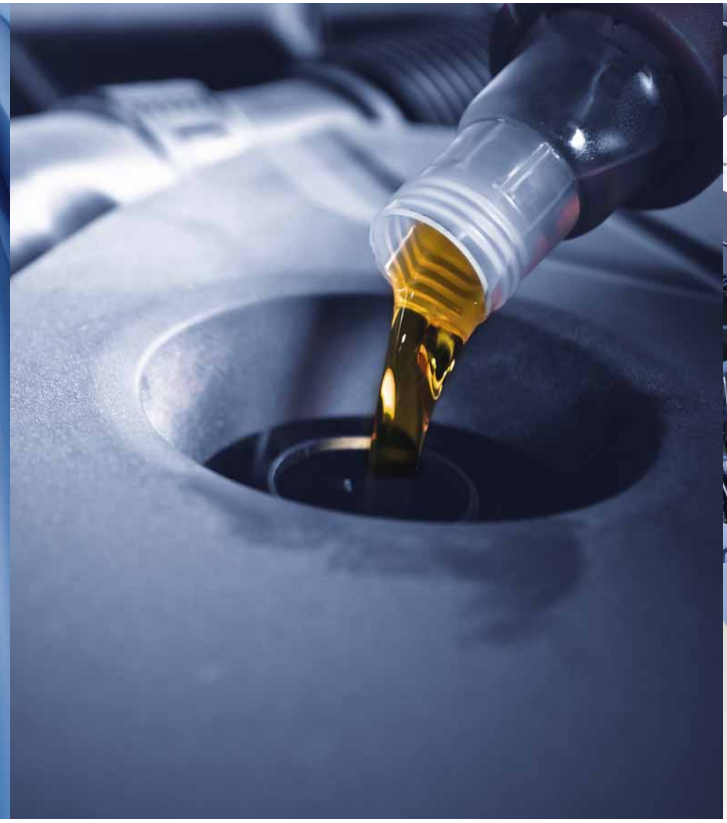
Typical application areas:
Decorative applications, e.g. premium automotive interior parts, or elegant packaging.



PRODUCTION POSSIBILITIES

- Cutting (pieces and strips)
- Plasma and laser cutting
- Straightening and extending
- Calendering (rolling)
- Electric discharge machining
- Heat treatment (annealing/sintering)
- Joining technology (welding/soldering/bonding)
- Stamping/deep drawing
- Cleaning (rolled goods or loose goods)
- Forming/embossing/edging/pleating
- Cylinder fabrication (automatic/manual)
- Bordering
- Laminating
- Plastic injection moulding
- Testing (manual/automatic/HAVER Vision Systems)
- Analysing (chemical/physical/optical)
- Marking
- Packing (manual/automatic)

FILTERING, CLEANING, HOMOGENISING.



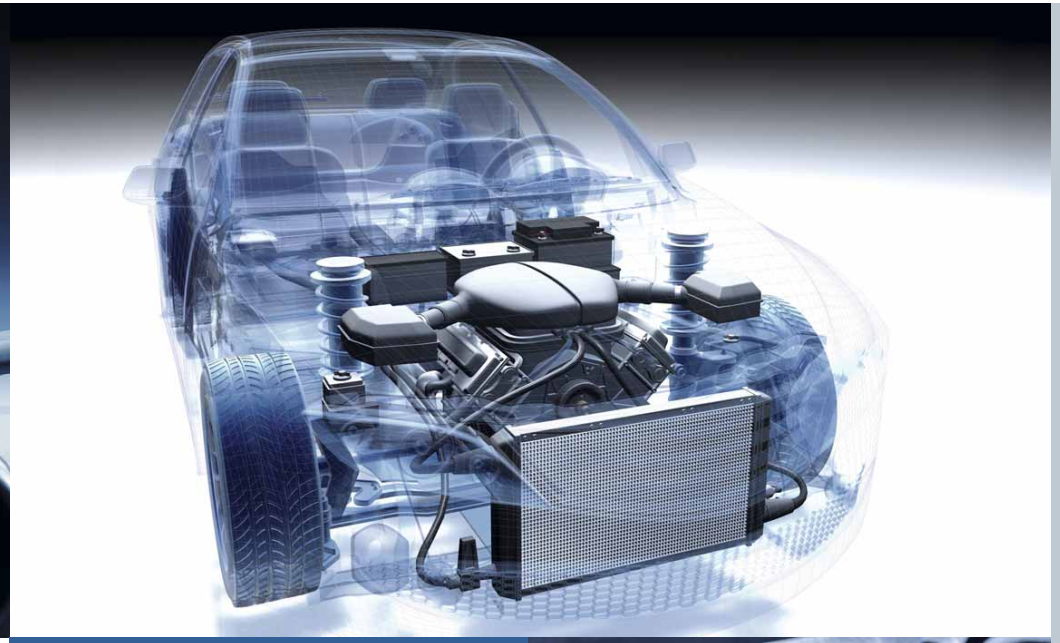
When extruding molten plastic, filter elements made from stainless steel woven wire have proven to be ideal due to their excellent strength, stability and chemical properties. They hold back foreign materials such as metal scrap, which is extremely important when encasing electric wire cables for example. Moreover, they also ensure the necessary homogeneity for uniform viscosity.

Machines, motors, and hydraulic systems all function best when grease and cooling fluids such as transmission oil, are filtered by metal woven wire filters.

Woven metal wire filters from Haver & Boecker assure optimum function for office and household appliances. Nozzles in inkjet printers deliver optimally sized and filtered ink particles; dishwasher filters produce a clean supply of water and clean the wastewater. Haver woven filters are also used for medical technology, in cleanroom conditions.

We also produce filter mesh for inhalators, breathing and dosing equipment, and blood analysis systems. These require extremely high quality parts delivered under the most stringent quality procedures.

FILTERING, CLEANING, HOMOGENISING.



Woven metal wire filters from Haver & Boecker ensure trouble-free function of control systems and engines in aviation and aerospace, clean air from air-conditioning units, and clean fuel at fuel stations.

Metal wire mesh is used for a wide range of applications in the automotive industry. Inlet screens for aluminium castings, air filters for pneumatic systems, mesh for plain bearings, metal mesh filters for exhaust treatment systems and fuel lines. Fuels are optimally dosed by wire mesh, distributed and electrical contacts are enabled.

The chemical industry uses wire mesh for liquid chromatography, or as a filter medium for manufacturing medicines, and many other products.

PROTECTING, SECURING, OPTIMISING.

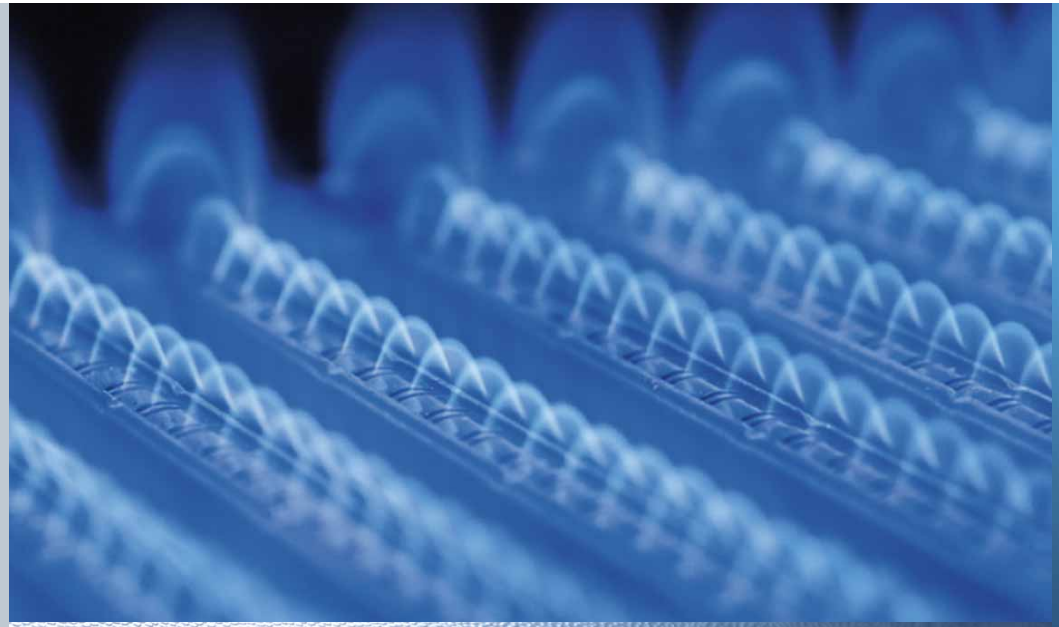
Wire strength, material type, opening size, and weave type determine the structure of the wire mesh. It can be relatively open whilst still having excellent stability. Thus it is especially suitable for a variety of applications involving the protection of elements without affecting its performance. Wire Cloth can even enhance the function of the application.

Classic examples include headphones and microphones, where the wire mesh protects the sensitive parts from mechanical knocks, while distributing sound to produce optimum acoustics.

When used in protective helmets, wire mesh can provide ventilation whilst preventing insects and other foreign bodies from entering the air flow.

The individual shape of the woven wire product is designed to suit the required function and application.

PROTECTING, SECURING, OPTIMISING.



Filters and fabricated parts made of wire mesh from Haver & Boecker make a decisive contribution to the safety and function of technical equipment in a variety of ways. For example with electrical switching systems, in the event of an explosion, they provide the necessary pressure equalisation, whilst at the same time preventing sparks and flames from flying out.

In pipe systems, woven wire elements are installed to protect against flash flames. For boilers in modern heating systems, they ensure optimum fuel and flame distribution, thus contributing to efficient and environmentally friendly heating.

H&B wire mesh is used in car airbag systems. When triggered by impact, the filters remove solid particles from the released gas whilst the airbag is being inflated.

In smoke and gas detection systems, the wire mesh protects against foreign particles that may adversely affect sensitivity.

FORMING, ENCLOSING, DESIGN.

Stable, three dimensional shapes offer stunning aesthetic design & appeal. Fabricated parts from Haver & Boecker are used in a variety of applications when it comes to forming, enclosing and designing different products.

The broad range of various mesh specifications, each with its own distinct properties, make it an ideal and versatile design material with exclusive and long lasting appeal.

The aesthetics, texture, and function can be combined in a variety of ways, making woven wire mesh ideal for designers of high-value products. Haver mesh brings your ideas to life.

In addition to the elegant covering of audio speakers and air vents, wire mesh is also used in the automotive industry for door handle enclosures and instrument panels.

By using various illumination ideas, further dramatic optical effects can be created. Open or semi-transparent woven fabric structures can be back-illuminated to create a stunning visual appearance.

FORMING, ENCLOSING, DESIGN.

From planning to implementation, Haver & Boecker helps customers to optimise form and function during the production of prototypes and small production batches, and in setting-up production and testing processes.

We develop and produce wire mesh and fabricated parts with injection moulded plastic elements for a variety of applications.
For example, audio speakers and headphone covers, as well as finely woven elements for mobile phones and smart phones, visible or invisible, and which protect against everyday knocks.

Water-soluble moulded fibres are pressed into packaging elements by pre-formed wire mesh (e.g. egg cartons). The mesh is shaped to match the form of the packaging.

GUARANTEED: OPTIMUM QUALITY.

The selection of material & its quality and processing possibilities, are of great importance in defining the properties of filters and fabricated parts. Certain requirements can only be fulfilled by certain materials.

Customers worldwide can rely on the knowledge and extensive processing experience that the experts at Haver & Boecker possess. We can advise on which woven wire cloth to use, and in what form the required function is best fulfilled in order to provide maximum stability, safety, and economy during production and in-situ use.

Certified measurement and test processes in combination with our own in-house processes for quality assurance ensure that all the woven wire products from Haver & Boecker fulfil the requirements: from supplier selection, to incoming goods inspection, the various wire mesh checks, process checks, random samples and 100% inspection.

Automatic maximum efficiency

By intelligently linking production processes - from stamping, testing, cleaning and packing - we create the basis for optimum efficiency. Robots for bonding applications, process-oriented work station systems, automatic pressing, testing and packing lines that reliably and automatically pack the product in bubble packs Haver & Boecker also develop individual solutions for the toughest customer requirements.

Our in-house proprietary HAVER VISION SYSTEM plays an important role. It utilises visual inspection and monitoring of large scale production, and is continuously developed to meet the growing demands for quality. Here we are striving to achieve a zero-defect solution to meet the extreme quality requirements of the automotive sector.

Woven mesh and material analyses in our own laboratory

All of our wire and woven mesh manufactured is examined and checked in our laboratory according to National, International and our own standards. Included among the tests are tensile and compressive tests, performed using leading industry equipment. Material testing is done using mobile XRF equipment. Microscopic structures are examined using ground and polished specimens. Pore size and distribution are determined using filter test stations. Digital air flow-through test stations or customer-specific test stations provide data for determining filter performance. Our photo-optic image processing apertures and wire measurements fulfil the highest standards and is MPA certified.

Self-developed, proven tests are conducted in our chemical laboratory along with standard corrosion tests (e.g. ASTM 262, G28 and others) and compared with customer test processes. This is accompanied by corresponding documentation and the monitoring of all cleaning media and cleaning results.
Residual contamination analyses related to the guidelines of VDA 19 assures our processes.

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