

## Tracking down microplastics

TU Berlin: Developing avoidance strategies with innovative superfine mesh and sampling baskets



WORLD WIDE WEAVE



Picture 1: Microplastics, i.e. plastic particles less than five millimeters in size, are a global environmental problem.



Picture 2: The sampling basket is hung in drains and facilitates reliable sampling of all street runoff water.

Picture 1, 3, 4, 5, 6 © GKD

Picture 2+8 © TU Berlin FG SIWAWI

Picture 7 © GKD/Bluesky60



Picture 3-4: GKD developed a sampling basket with up to six filter elements and defined fractionation for sampling an entire rainfall event.



We will be happy to send you the desired images in printable resolution by e-mail.

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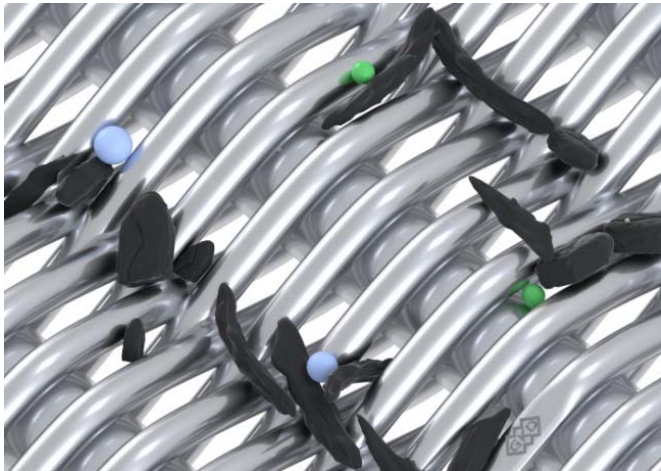
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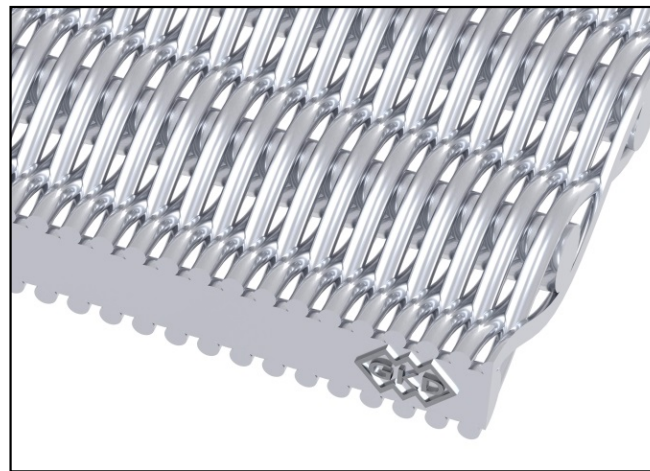
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Picture 5: The optimized dutch weaves from GKD secure a strict separation limit up to six  $\mu\text{m}$  with a high requisite flow rate.



Picture 6: The excellent performance offered by optimized weaves can be attributed to their special weave with slot-shaped pores on the mesh surface and larger pores inside the mesh.



Picture 7: According to the German Federal Environmental Agency up to 111,000 tonnes of tire abrosion materials are produced each year in Germany alone.



Picture 8: Daniel Venghaus M.Sc. is engaged in research at the TU Berlin in the field of urban water management.

Picture 1, 3, 4, 5, 6 © GKD

Picture 2+8 © TU Berlin FG SIWAWI

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