

Technical Information

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Instructions for Water Washing of KATEC Allmetal Catalysts

If elements are covered with fibers or any other loose material then cleaning can be done with a vacuum cleaner.

Do not use compressed air to blow off residue!

If dust particles cover the surface, which is distributed throughout the entry face, the elements must be washed.

Washing: Use a rectangular container and fill with water to about twice the depth of the element. Add 2 ccm of detergent for dish washing to 10 liters of water. Move element up and down for 10 minutes, turn and continue treatment for additional 10 minutes.

Rinsing: Place the element at 45° angle on the small side of frame and rinse with clear tap water – no pressure – until all detergent has been removed and no foam any more appearing.

Drying: The elements should be laid flat with the frame touching a support and dried with hot air.

After dryness has been reached, the elements can be installed again.

If condensate is found on the element during or after washing, same should be removed in a suitable box at temperatures which are raised slowly from 20° to 600 °C. The condensate must be evaporated slowly to prevent instantaneous combustion with consequent damage. Do not use any open flame on the element.

Repeat the water washing process after condensate burn off.

Washing of the catalysts with solvents to remove condensates is mostly not necessary but any attempt should be discussed with your supplier.

In accordance to the cleaning process described above the catalyst surface should be clean and grey to brown in color.

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Inspection of Catalyst Gasket

The gasket on the supporting frame or catalyst frame (in case of elements type G) should be inspected during removal to detect any leaks. This could cause a by-pass of combustibles with consequent incomplete cleaning effect.

The gasket should be elastic and not brittle.

If at all possible the nuts on the catalyst hold-down clamps should be retightened 3 – 4 weeks after installation.

Check on Effectiveness of Catalyst after Cleansing

Normally, the catalyst elements should be reconstituted after treatment as described. If however, the performance is still unsatisfactory, then the element must be returned to KATEC, where it will be inspected, subjected to special acid treatment and if all fails to reactivation. A preliminary request for approval to reactivate will be submitted.