

Technical Information

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Katec Allmetal Catalyst – Instructions for Handling

The following information describes the methods of inspection and maintenance of catalytic elements from time of receipt until reactivation becomes necessary after use in the ovens resp. catalytic unit.

1. Unpacking and Storage

Open the outside package carefully so as not to damage the elements and inspect for possible damage during transit by checking the paper or plastic wrapping of the catalyst.

In the case of damage during transit immediately inform the shipping agency and return package with contents upon their request.

When no defect is found, replace the elements in their original wrapping and store in clean and dry location.

Catalytic elements must not be stored in an area where they might come in contact with hydrocarbon vapours. A fire or explosion could result!

The elements should be touched only at the frame as well as avoid rubbing or pressing the wire nets.

2. Activity Check during Application of Catalysts

The catalytic elements could be considered as one of the more valuable parts of the machinery. They should be treated with this in mind, since replacements are costly. The following inspection should be carried out on a periodic basis:

Check temperature on inlet and outlet side of catalyst.

Check color and odour after catalyst. Haze in the stack or exhaust duct could indicate the catalyst has become inactive.

Check pressure drop accross catalyst with manometer.

At least once every six month the combustion efficiency for hydrocarbons should be checked.

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3. Reconstitution of Catalytic Elements

In case of problems during the check according point 2) so that under normal operating conditions:

- Catalyst exit temperature is below normal
- Odour is detected after gases leave the catalyst
- The exhaust gas behind the catalyst emits fumes
- Pressure drop across the catalytic element has increased
- Measurements of hydrocarbon concentrations before and after catalyst indicate decreasing activity in comparison with earlier measurements

then the catalyst must be removed and treated as mentioned in Technical Information No. 9 or No. 10.