

PRO/Quick HG™

Summary of the Patented Cleaning-Process

Introduction:

The invented process PRO/Quick HG™ relates to a method and to a plant layout for removing mercury impurities from metal. Metal which has come into contact with mercury-containing gases or liquids, such as natural gas condensate, have to be cleaned of the mercury as a result of this being absorbed in the metal.

Generally it means that until now the processes are based on the principle of melting down the metal in a melting furnace, and the mercury is separated by mercury condensation. This is a process type which uses much energy and, as a consequence of being melted down, the metal can moreover no longer be used in its original form.

The new invented process:

The present invented process PRO/Quick HG™ has for its object to provide a method and plant layout for removing mercury impurities from metal which substantially does not have the above stated drawbacks, while the mercury impurities in the metal are reduced appreciably.

The process moreover has the advantage that substantially no (mercury) vapours are therein created, whereby the process also uses less energy, leading to interesting overall-solutions. Another advantage is the possible re-use of the metal.

The business:

This patented process PRO/Quick HG™ is generally being used on the basis of (license-)contracts. Depending on the product-capacity needed, the capacity of the plant will be adapted to the scale suitable for the specific markets/suppliers. The plant layout can be made on a mobile basis, which means that cleaning metals 'on site' is an interesting opportunity.

Acknowledgement:

Because of it's environmental-friendly status, the upscaling development of the invented process PRO/Quick HG™ has been supported by grants from the Dutch national innovative technology development board SENTER/NOVEM.

Information:

For further information, please contact the developer and process-owner, PRO/MIBO in The Netherlands.

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PRO/MIBO

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Overview of the Development Plant



An Impression of the Plant-Layout



Some Test-Samples

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