

Your application: cleaning/degreasing of turned parts



Turned parts are manufactured from different materials. Typical representatives are steel, stainless steel, aluminium and other nonferrous metals, plastics. Since these are normally large lots of equal parts, they can optimally be handled in bulk, sensitive parts have to be put in special trays to protect the surface. For cleaning mainly chamber washing machines are used which can treat a complete load. Due to the manufacturing process the parts are heavily contaminated with oils, particularly in capillaries (finebores or undercuts). An additional aspect is the contamination with chips and shavings.

Our recommendation: parts cleaning with Perchloroethylene

Process stability: Distillative solvent recycling assures a continuous high parts quality, also at a high oil feed in the system.

Universal: Perchloroethylene is - without exceptions - optimal for degreasing all types of metals.

Fast: Perc has best infiltration and drying abilities and is especially useful for very tight bulked parts.

Compact: Perc-plants are delivered as completely closed systems: exhaust air free, waste water free.

Neutral to environment: Perchloroethylene is a safe product to master. Dangers for human and environment are not latent when careful used. Product handling is done with well proofed safety transport and storage systems.



Alternative 1: parts cleaning with non-halogenated solvents

Degreasing quality: Non-halogenated solvents always leave a thin film on the parts surface, that means that the surface quality is remarkable lower than using Perc. An internal recycling (distillation) is possible within limitations.

Top performance-oils: Non-halogenated solvents are not applicable to clean off high additive top performance oils containing sulphur and chlorine components. These will result during distillation to irreversible acidifications of the solvent.

Safety: Halogenon-halogenated solvents are inflammable! Plant technology and also plant environment have to fulfill the requirements of ATEX (ExSchutz-RiLi) resp. other safety rules.

Environmental aspects: Non-halogenated solvents are like CHC volatile compounds (VOC) with negative influence on humans and environment. In contrary to CHC-plants the plants for using non-halogenated solvents need a chimney!



Alternative 2: parts cleaning with aqueous medias

Advantage emulsion: Turning parts which stick with emulsions are preferably be cleaned with aqueous solutions.

Limitations: Critical is the cleaning and drying of very small or parts with capillaries which often is only possible with a lot of expenditure

Operation cost: Comparing with solvents, aqueous media are effectively recyclable only with a high energy input.

