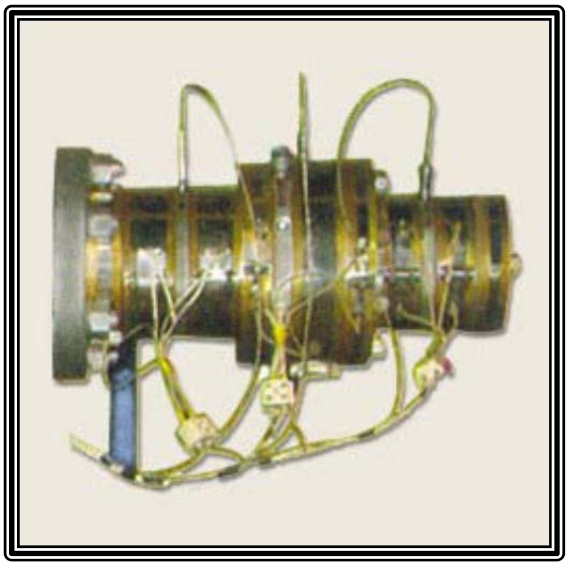
Advanced Fluid Technology Inc.

Die Cleaning contaminated by PVC in FluClean®



DIE-HEAD FOR HDPE PIPE

By manual cleaning of PVC contaminated dies the residues from plate-out can't take off from the surface.

Thermal cleaning in oven chambers always accompanies the risk of corrosion due to the HCl-residues which arise when PVC is burnt.

What can be done to protect the expensive dies ?

The answer is **FluClean of AFT Inc.**.
FluClean is an indirect heated fluid bed cleaning system. 90% of the volume is aluminum oxide and only 10% is air which is used to get the fluidizing effect. The fluidizing air is continuously purging the fluid bed.

By temperature and the oxygen content of the air the solid PVC and the plate-out residues are changed into gas. Due to the sand filling and the continuously running fluidization the HCl-concentration in the retort is kept very low.
That means that simple breaker plates as well as dismantled extrusion dies can be cleaned without any risk of corrosion.

DIE-HEAD FOR PVC PIPE

Typical cleaning parameters of **FluClean** are :

Temperature approx. 460°C-520°C
Time 1 to 3 hours

Inorganic and HCl-residues which stay on the surface after the thermal cleaning are removed by means of a coordinated post treatment in a second step. Thereby the necessary cleaning quality is obtained.

Post treatment consists of :

Blowing off with compressed air
Blasting with glass balls
Neutralizing with chemical

During normal operation of the **FluClean** each thermal or mechanical damage can be excluded.
A good service life and a qualitatively perfect product are reached by the cleaning quality after both stages.

FluClean includes a thermal afterburner and as a special device a scrubber to avoid any problem with environmental.

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