

Filtration & Degreasing of Washing/Cleaning Solution With Sovereign KBF with recommended Filter Media 3DL 10100

Filtration of Cleaning/Washing Solution is one of the proven and standard applications of 'SOVEREIGN' KBF. However, understanding the criticality of this application, we ensure that;

- 1. 'SOVEREIGN' KBF is adequately sized for the recommended Flow.**
- 2. Select 3DL 10100 as a standard filter media**

DEGREASING EQUALLY WITH FILTRATION

With 'SOVEREIGN' KBF and 3DL 10100, we aim at retaining not only solid contamination but also the oil & grease. Hence, conventionally this application is called as 'Degreasing of Washing Solution'.

'SOVEREIGN' KBF provides the '*non turbulent zone*' in its filtration trough. This silent zone allows the tramp oil and the grease to float on top of the solution. The tramp oil and grease are then effectively taken out by the '*lofty fibers*' of **3DL 10100** along with the thin dirt cake build up.

This is how 'SOVEREIGN' KBF & 3DL 10100 ensure filtration of solid fines as well as oil and grease from the Washing Solution.

MILLIPORE TEST – CRITICALITY OF DEGREASING

Millipore test carried out with organic solvent such as Carbon Tetrachloride (soon CCl_4 will be replaced) is a universally accepted test procedure for ascertaining the cleaning efficiency. The presence of oil and grease in the Washing Solution cause greater problem during this Millipore test. The Washing/Cleaning Solution which is contaminated with oil and grease may effectively washout the solid contaminants from the component but will always have the tendency to deposit traces of oil & grease on the components.

It is this residual oil and grease of the component which, during the Millipore Test procedure gets dissolved and carried by the Carbon

Tetrachloride – the organic solvent and deposits on the Millipore membrane resulting unacceptable readings.

SHORTCOMINGS OF CONVENTIONAL MULTISTAGE FILTER SYSTEMS

Conventionally, multistage filter systems with cartridge/bag filters are provided with a hope to arrest oil and grease. Invariably the cartridge / bag filters have proved ineffective because under pressure, the oil, grease and the washing solution acts as homogenized liquid passing at high velocity through these pressure filters without the separation. 'SOVEREIGN' KBF's non – turbulent Filtration Trough with Lohmann's/TWE's lofty 3DL 10100 media provides most effective solutions.