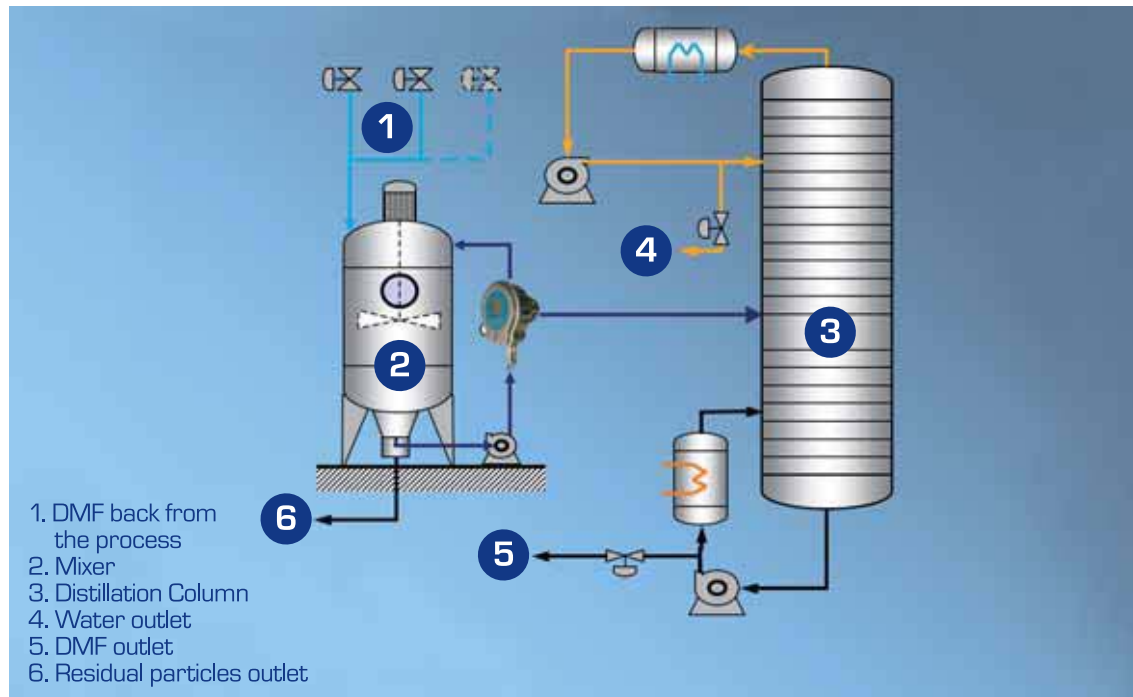


# Application Focus

**Mexico**  
**Textile**

**Monitoring of the DMF concentration at the exit of the mixer before the distillation column**

**Kaltex Fibers (End User)**



## Description of the process

In a textile plant, in order to have an efficient process, it's very important to be able to properly recover the used DMF.

DMF coming from:

- Absorption Column
- Exhausted bath

is sent to a mixing system and afterwards to the Distillation Column, in order to distillate a DMF solution as pure as possible.

The aims of the mixing system are:

- to provide an homogenization of the different sources of DMF solution
- to assure a constant concentration to the solution which will feed the Distillation Column (in order to obtain an higher efficiency in the distillation process).

According to the different technologies and different structure of the Distillation Column, the concentration of the solution coming out from the mixer can go from 50% to 60%.

## Benefit of the installation of the Maselli analyzers

Installing an in line UR24 Refractometer in a recirculation loop of the mixing tank allows, in a cost effective way, to continuously **have under control** the mixing process, in order to assure a constant feeding (in terms of concentration) to the Distillation Column.

Cost savings due to the in line solution:

- Reduction of the lab checks
- Fast reaction in case of any eventual problem in the mixing system
- Better efficiency of the Distillation Column (fed with a solution **always** at the same concentration)

The performances of the whole system can be even improved adding a further control.

Using another in line UR24 it's in fact possible to check also the composition (purity level) of the water or the DMF coming out from the Distillation Column; the feedback of the unit allows to handle in a more efficient way the distillation phase.

