

## Business Case

### Skin care

# HOW SENSITIVE VISCOMETERS BRING EXCELLENCE IN COSMETICS MIXING

For leaders in skin care products the challenge is to combine the irreproachable quality of the products with optimized use of resources and time.



## CHALLENGE

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These leading companies are manufacturing hundreds of different facial creams, shower gels, make-up removers and cleansers, that cover a large range of viscosities.

Production sites are mixing the ingredients in industrial tanks; production cycles last up to six hours and have several operations at critical viscosities.

Beside of the determination of the exact viscosity at critical steps, the monitoring of the viscosity evolution and its root causes are also crucial.



### MIVI Viscometer key features:

- End-user friendly HMI
- Sanitary or EHEDG certified design
- CIP / SIP
- Reliability

## From gels to creams

## SOLUTION

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Sofraser, inventor of the vibrating type at resonance frequency viscometer, had over a long period the know-how of sensitive products in hygienic environment.

MIVI was the best-suited instrument thanks to its large choice of electronics interface allowing correlations (such as consistency, concentration...) and ready for the connection to the DCS and multiple choices of on tank installation options.



## RESULT

The continuous and instantaneous monitoring of the viscosity in each mixing tank allowed the improvement of the non-conformity ratio by 30%.

The identification of the exact critical viscosity operations and root causes of viscosity evolution allowed the upgrade of the ingredient's production management and reduction of the overall process duration.

Inline viscometer allowed process optimization and automation of the mixing process. For operators the instantaneous viscosity display is a satisfaction and has a positive and far-reaching effect.



### Process Quality Manager Skincare Products

“ The production impact is huge. Now that the operator directly reacts to a root cause generating a bad viscosity value, blocked product volume is decreased, the tank idle time is reduced, and ingredient loss is now insignificant. We were able to banish all dead zones and to avoid any cross-contamination. The Sofraser solution is perfectly adapted to our mixing process.

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a leap in the  
control of  
operations



**Sofraser is highly reputed on:**

- Cosmetic
- Biotechnology
- Pharmaceutical
- Food & beverage

**But also on:**

- Polymers & chemical
- Coating
- Oil & Gas



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