

Business Case

Gelatin capsules

HOW VERSATILE VISCOMETERS OPTIMIZE ENCAPSULATION PROCESS

For the leaders of the pharmaceutical industry, the perfection of their encapsulated products requires the full control of several processing steps.

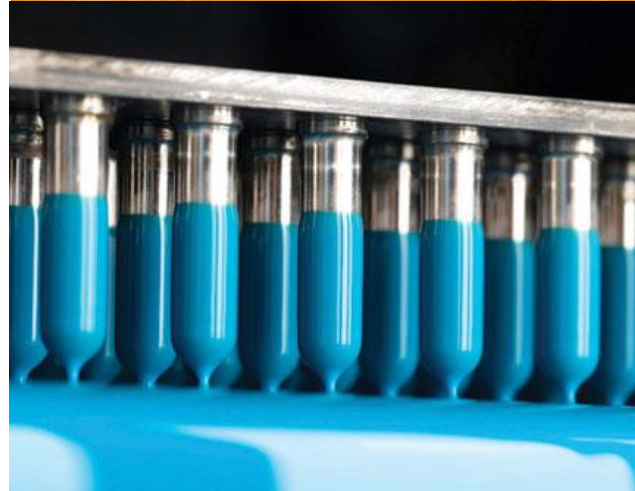


CHALLENGE

Encapsulation is a solution for enclosing medicines in a stable shell. Both hard-shelled and soft-shelled classes of capsules are made of gelling agent that is mainly gelatin, an animal protein, or polysaccharides and derivatives, the plant origin agents.

Quality of the final product involves the upstream gelling agents production thanks to the transformation of the natural origin materials, manufacturing the shells and sealing them after filled with the active ingredient.

Viscosity is a key specification of the gelling agent that will be involved in the empty capsules manufacturing by dipping process and in a further step in their sealing after filling with the active ingredient.



MIVI Viscometer key features:

- Easy to install
- End-user friendly HMI
- Reliable
- EHEDG certified or sanitary designs

From raw materials to fully secured enclosed medicine

SOLUTION

The vibrating type at resonance frequency viscometer, invented by sofraser, is known for its large versatility that allows MIVI viscometer to be used from harsh to sophisticated transformation processes, including hygienic ones.

Beside of its contribution to the upstream gelatin production, the sensitive and reliable measurement allows a perfect monitoring and control of the viscosity during capsule manufacturing and sealing.

Available with Ex-proof certificates for use in hazardous environments, MIVI suits for solvent based formulations.



RESULT

Sofraser process viscometer MIVI is used successfully by gelatin producers whose concern is the quality, the **safety** and the **compliance** of the final product specifications.

Capsules manufacturers take advantage of viscosity control to guarantee the best performance of the dipping process in the gelatin bath.

Finally MIVI serves the Pharmaceutical industry where it is used to monitor the viscosity of the sealing agent during the application step and warrants the safety for the final consumers.



QC manager Capsules manufacturing line

“ The MIVI installed on the gelatin preparation tank of a capsule banding machine provides stable gelatin quality and an 80%+ sealing quality increase. Moreover, thanks to the instantaneous and continuous measuring, MIVI provides traceability of manufacturing conditions.

”

Warranted
Product quality
and safety



Sofraser is highly reputed in:

- Pharmaceutical
- Cosmetic
- Biotechnology
- Food & beverage

But also in:

- Polymers & chemicals
- Coating
- Oil & Gas



CONTACT

Dr Philippe Burg

Email: PHB@sofraser.com

Phone: +33 2 38 85 77 12

Website: www.sofraser.com

We are serving demanding leaders on their industries, at an international scale, with in-line, in-tank, on-line and at-line innovative solutions that provide a unparalleled user-friendly experience.