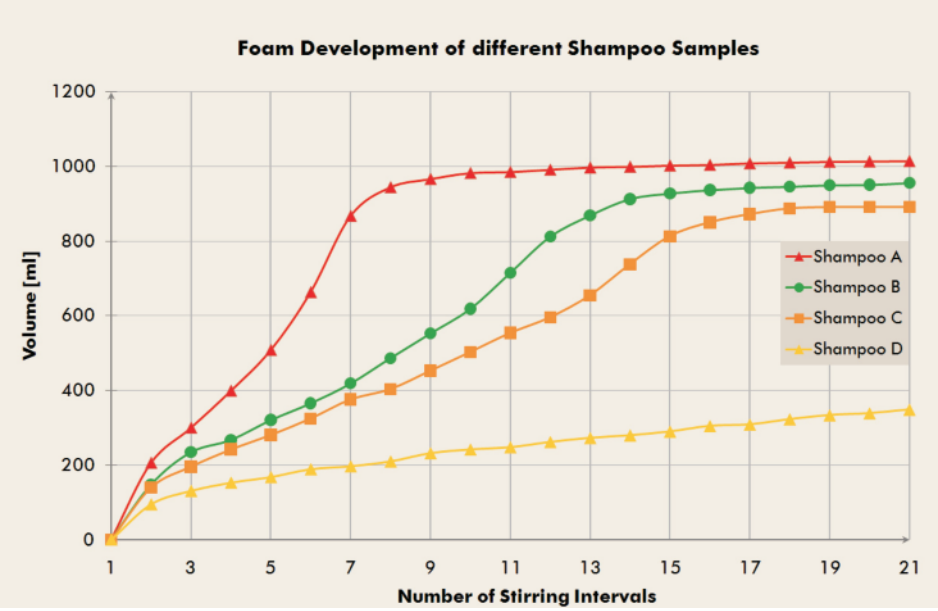
Optimization of Shampoo Foaming Behaviour by Foam Testing

The foam volume of shampoos is one of the few quality characteristics being recognisable for the user. If a shampoo develops a lot of foam, the user assume a high cleaning potential and an intensive caring effect. Further foam attributes, for example the foam development as well as the foam stability, have an influence on the customers' quality feeling. Common and inaccurate measuring methods for example the droplet method, insertion of air method and shower method cannot provide objective test results with regard to the foam's quality. A reproducible measurement with those methods is not possible, especially the measurement of the parameters foam development and foam decay, due to multiple subjective influences.

The SITA foam tester R-2000 and its patented Rotor-Foam-Method measure all data automatically whereby subjective influences caused by the user are excluded. If the device is started once, it is possible to carry out many measurement series without operating the device by the user again. The SITA foam tester R-2000 carries out reproducible and efficient measurements due to a fully automatic procedure starting with analysis of the sample feeding and the analysis of the foam volume up to the cleaning of the sample reservoir. A variation of testing conditions for example the stirring speed and duration makes it possible to set up a correlation with In-Vivo-Methods such as the one-sided-test. This leads to a reduced time expenditure in research and development tasks.



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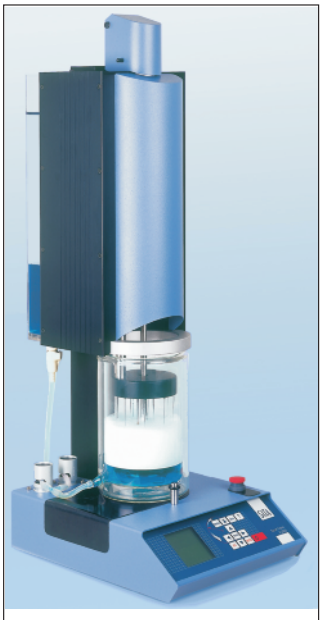
In order to simulate realistic operating conditions, the sample can be tempered while measuring. Furthermore, a serial port on the device allows a comfortable and automatic evaluation of the test results in combination with a graphic presentation of data on the computer. The SITA foam tester R-2000 guarantees a fast, efficient and reliable test performance in order to achieve valuable results for research and development tasks as well as for quality control.



SITA foam tester R-2000

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