

FOAMSCOPE™

Shaving Foam Analysis

Objective

Assess whether the shaving foam maintains a fine, uniform and sufficiently moist structure during the application time.

Measurement

Shaving foam is deposited directly from the can onto the FOAMSCOPE™ to characterize the initial foam structure and monitor its short-term evolution during use.



Sample	Shaving Foam
Camera settings	Exposure: 4.30ms - Gain: 0dB
Capture settings	Frequency: 1fps - Time: 60sec

Key analysis parameters

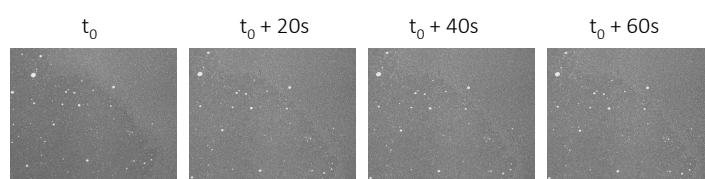
FOAMSCOPE metric	Information provided
D50	Characteristic bubble size and evolution of foam fineness
PDI	Bubble size uniformity and structural homogeneity
Liquid fraction	Evolution of the liquid content within the foam
Bubble Density	Density of the bubble population and evolution of the fine foam structure

Shaving foam performance during use → Fine bubble structure · High homogeneity · Stable bubble density · Maintained liquid content.

Low and stable D50 indicates preservation of a fine bubble structure during application.

Note: this sheet is designed as an application illustration, not as a scientific validation study.

Foam structure images capture



Between t_0 and 60 s, changes in the foam structure are barely noticeable visually

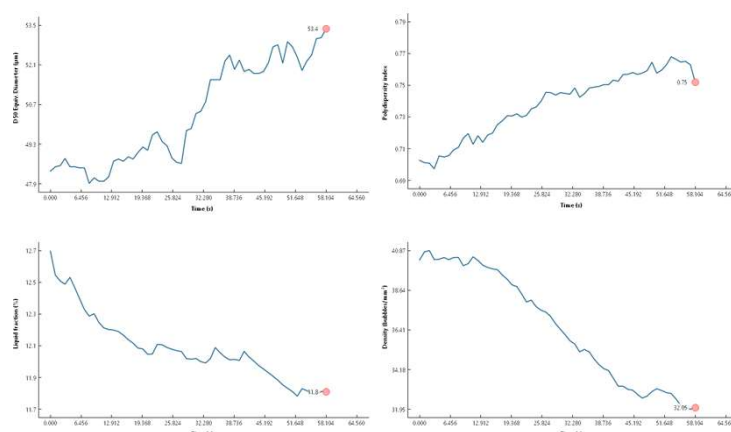
t_0 — Initial foam structure

Very fine and relatively homogeneous bubble structure.

$t_0 + 60$ s — Structural evolution

Fine structure is largely maintained. Subtle changes in bubble size distribution become visible.

Foam structure analysis



D50 ↑

Indicates a gradual shift of the bubble population toward larger sizes.

PDI ↑

Indicates progressive broadening of the bubble size distribution and loss of structural homogeneity.

Liquid Fraction ↓

reflects a progressive reduction of the liquid content within the observed foam structure.

Bubble Density ↓

indicates a progressive reduction of the fine bubble population during application.

FOAMSCOPE™ quantifies the ability of shaving foam to maintain a fine, homogeneous and sufficiently moist structure during the application time.