

# Product Spotlight

## TEGOSTAB® B 8745 LF2

**Evonik additives create comfort with the unique low emission silicone surfactant TEGOSTAB® B 8745 LF2 for automotive seating**

According to a study from the Swiss company Regus, the world average travel time from home to work is about 25 minutes in one direction. Many people use their car as the primary means of transportation. In the US, for example, 85% drive their car to work. The longer the time one spends in a car, the more comfort is desired, especially for the car seats. That's why today's car seats are commonly made of polyurethane foam. Evonik delivers additives to help improve this comfort for the consumer. TEGOSTAB® B 8745 LF2 delivers this special performance to MDI-based, flexible HR molded foams for automotive seating applications.

By using TEGOSTAB® B 8745 LF2 as a surfactant, the miscibility of the MDI and polyol blend system will be enhanced. Better miscibility reduces the number of concentrated urea areas, increased areas of hardness, in the foam. Due to this feature, there is a more uniform density and hardness distribution throughout the foam. This excellent emulsification property can help to decrease foam defects related to mixing, therefore increasing foam quality and reducing scrap rates. A more uniform cell structure translates into more comfort where the consumer needs it most.

As in many application areas for the automotive industry, the reduction of the VOC content is becoming more important. TEGOSTAB® B 8745 LF2 is considered to be an ultra-low VOC product enabling the foam producers to meet most stringent OEMs' foam VOC specifications. Besides the low VOC content, low fogging is another benefit gained when TEGOSTAB® B 8745 LF2 is used as a surfactant. A final environmental benefit is the elimination of phthalates in the material, since TEGOSTAB® B 8745 LF2 is completely phthalate free.

As phthalates are considered to be harmful and toxic materials, Evonik has developed a surfactant that will meet future considerations from automobile manufacturers as well as government organizations.

TEGOSTAB® B 8745 LF2 is a unique, low potency surfactant combining enhanced emulsification and ultra-low VOC, while also balancing sufficient cell regulation and open-cell structure. Open-cell structure produces an easy to crush foam which then can lead to a reduction in the process time when vacuum crushing is used. The final foam product has a nice, smooth surface and good dimensional stability. Once the foam is covered for a seat, this better crushability translates into fewer wrinkles over the life span of the car seat.

TEGOSTAB® B 8745 LF2 can also increase the manufacturing process latitude. Manufacturing processes that are changed based on production considerations or upset conditions can be handled with less impact on the crushability of the foam when using TEGOSTAB® B 8745 LF2 as a surfactant. TEGOSTAB® B 8745 LF2 is also robust enough to withstand quality and use-level fluctuations in other raw materials. The effect on open-cell content of the final foam can be minimized during these changes.

TEGOSTAB® B 8745 LF2 itself is nonhydrolysable and water soluble. Therefore, it is possible to create a pre-blend before the actual foam production. This could be of interest especially for manufacturers desiring more process flexibility.

Overall, TEGOSTAB® B 8745 LF2 delivers to our customers a unique environment-friendly silicone surfactant which provides maximum process improvement and flexibility. As customers spend more time driving, they should spend less time concerned about their comfort.



Are you interested in more information about our TEGOSTAB® B 8745 LF2? [Contact our sales representatives](#) or [download our MSDS and TDS.](#)

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