

SOLVAY



Sustainable foaming solutions for the
AUTOMOTIVE INDUSTRY



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Alve-One® foaming agent solutions, bringing more value for your automotive foamed applications



Matching the technical performances of the market reference with a cost competitive solution



Enhancing sustainability performance in car parts products with a compliant and safe foaming agent



Simplifying logistics through a safe-to-use foaming agent, delivering foams containing no odor



Improving competitiveness by optimizing formulations or manufacture processes (if desired)



Alve-One® characteristics

Chemical composition

Mineral based, endothermic decomposition

Physical form

Powder, Masterbatch*

Resins

Elastomers, linear & crosslinked Polyolefins, rigid & flexible PVC, Rubber

Granulometry range

Adapted to your process:
From 5 μm to 50 μm

Processing temperature range

Adapted to your process:
From 140 to 210 °C

Packaging

Supporting your needs

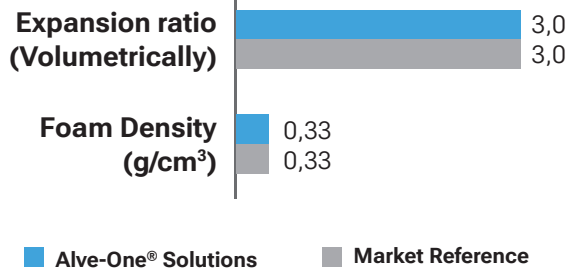
*Available on demand
depending on your region.
EU made
Made in Italy

100%
non-toxic



The lightest comfort ever

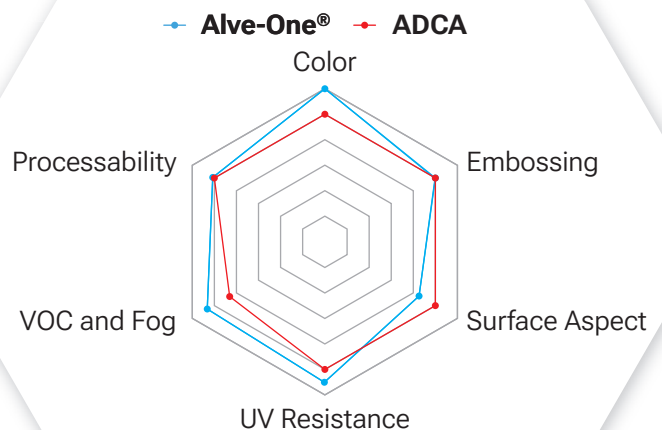
Alve-One® foaming agent solutions are based exclusively on **safe raw materials combinations**, 100% compliant with REACH regulations, deliver efficient foaming results ensuring greater comfort for all passengers



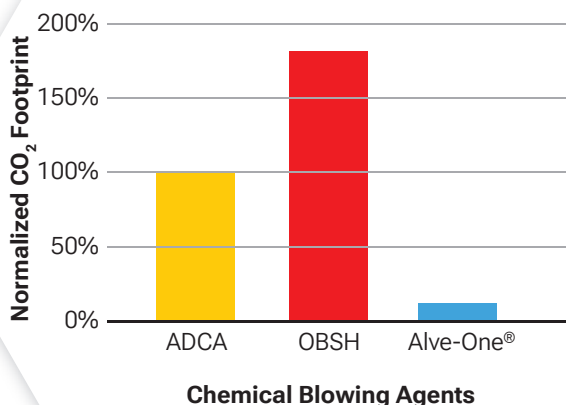
Characteristics comparison of two elastomeric foams produced with ADCA & Alve-One® solutions

Under the same processing range, Alve-One® foaming agents allow the same density reduction and expansions than the market references.

Foams made with Alve-One® can perform better in properties including UV resistance, Fogging and VOC emissions.



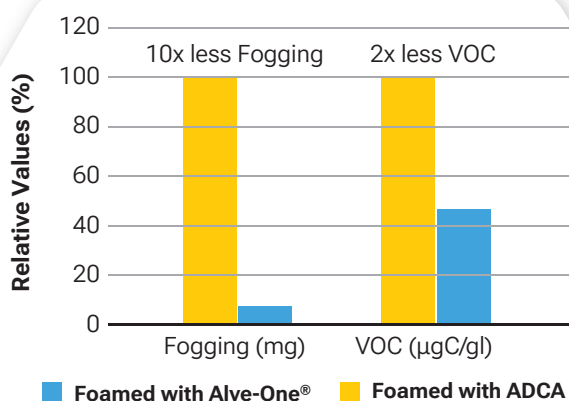
Alve-One® solutions, a perfect example of eco-design



Alve-One® is 10x less impacting than ADCA in terms of CO₂-eq emissions in full car part life cycle. Replacing 1 kg of ADCA by +/- 1 kg of Alve-One® you will be saving on average 10 kg of CO₂-eq.

Improved VIAQ – breathing the fresh air of Alve-One®

When foamed with Alve-One® solutions, car parts do not emit any strong gas smell (ammonia) and contain negligible quantities of VOC (volatile organic compounds). These foamed car parts will contribute to a significantly improved Vehicle Indoor Air Quality.

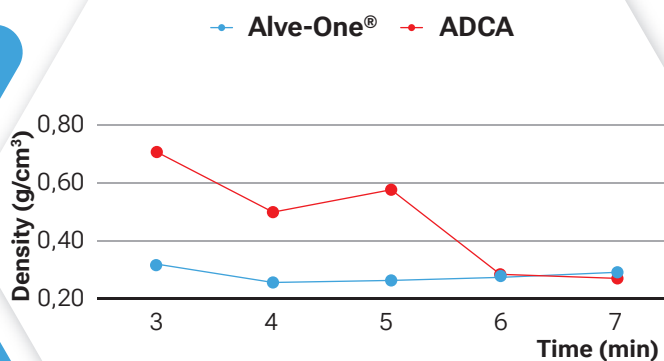


Measurements according to DIN 75201 (2011) and VDA 277:1995

Car parts produced with Alve-One® comply with the BGIA and GADSL and do not emit ammonia or any of its derivatives.

One less SVHC to declare in the production of car parts as demanded by article 33, paragraph 1 from Reach.

With a more efficient kinetics, including Alve-One® foaming agents in your products can allow shorter cycle times leading to energy savings and higher production outputs.



Evolution of crosslinked EVA foams' density during the manufacturing process when using ADCA and Alve-One® products.



Alve-One® answering the automotive needs

- » Free of any GADSL or SVHC substance
- » Reducing the CO₂ equivalent foot print of vehicles
- » VOC emissions and fogging reduction
- » Avoids the 'new car smell'
- » Vehicle parts light weighting and improved recyclability
- » Foams' production optimization may be achieved
- » Reliability of supply and consistency of processing



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www.alve-one.com

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