



Case Study: GORE® Acoustic Vents in a Smartphone

GORE® Acoustic Vents avert consequences of acoustic inconsistency

? CHALLENGE

Three weeks prior to the launch of their flagship waterproof smartphone, a renowned OEM found that the vents in use did not meet the high standards for mass production, resulting in an unusually high number of acoustic failures. **This inconsistent performance was not only impairing the production yield but would damage the client's reputation and revenue as well.**

To avert these catastrophic consequences, the client called Gore to find the cause of the problem and offer a solution to meet the highest standards and the customer's needs.



GORE® Acoustic Vents
product model GAW333

💡 SOLUTION

The client provided the acoustic consistency data. Gore analysed product and performance variability in the early stages of the manufacturing and tested in the Gore laboratory. The tests were done within 24 hours, and the results were used to help the client decide on the optimal solution.

The GORE® Acoustic Vent GAW333 was the best way to solve the problems the client faced. It provided less acoustic variation in the device and improved the yield loss to a negligible percentage, providing reliable acoustic capability.

Want to know how we did it?

Leading OEMs choose Gore because our products and services enable them to develop differentiated products with low development and supply-chain risk in a fast-paced, highly competitive market.



Visit this link to find out how we helped our customer to succeed in this special case – and how we can do the same for you!

gore.com/gaw333-acoustic-phone-story

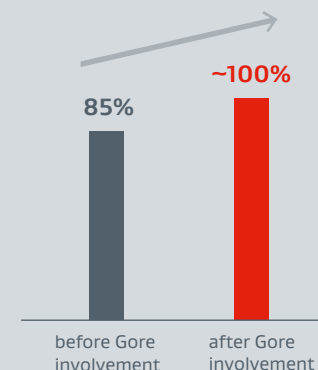
★ RESULTS

With our help, the smartphone OEM was able to:

- launch their flagship smartphone with minimal delay – thanks to our technical support.
- prevent reputation loss by providing consistent acoustic performance.
- avoid significant rework costs by offering a drop-in replacement.
- produce over one million parts within half a month – thanks to our robust and flexible supply chain meeting the requirements of mass production.
- improve yield from 85% to nearly 100%.

THE VENT: GORE® ACOUSTIC VENT GAW333

This acoustic vent is available with inner and outer dimensions of 1.6 and 3.2 mm or 2.0 and 3.6, as well as a reference thickness of 0.36mm or 0.31mm. Suited for shallow immersion, this standard part provides an IP68 rating and an insertion loss of less than 1.3 dB at 1kHz.





Why Choose GORE® Portable Electronic Vents for Your Electronic Devices?

Leading OEMs have specified over 5 billion GORE® Portable Electronic Vents because they know our products and services can help accelerate their development of innovative and differentiated devices in fast-paced, highly competitive markets.



PRODUCT AND APPLICATION LEADERSHIP

- Deep expertise in material science and acoustics
- Balancing trade-offs of mobile electronics design



RELIABLE PERFORMANCE

- Highest standards of quality, performance, and reliability
- Comprehensive understanding of end-use applications



FAST DEVELOPMENT

- Fast response to customer requests
- Availability of easily integrable designs and prototypes



SUPPLY SECURITY

- Sufficient availability of products without waiting periods
- High-quality vent supply for over 10 million devices per year



MATERIAL SCIENCE

- Development of materials with exceptional performance features
- Broad applicability in products for various industries and markets



GLOBAL SUPPORT

- Agile and robust support for customers worldwide
- In-depth consultation by our sales, engineering, and research experts

Interested in Testing our Products or Talking to our Experts?

For additional assistance, please contact a Gore representative.

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