



Case Study: GORE® Pressure Vents in a Smartphone

Optimized Pressure Vents for Better Reliability of a Smartphone

? CHALLENGE

During the design validation, a notable smartphone OEM found their product lacking robustness and reliability: it failed the water entry pressure performance test and was consequently prone to errors and system failures. **The company cancelled the global distribution fearing a demand for replacements or repairs, which might compromise the market revenue and blemished their reputation.**

Subsequently, the company consulted Gore to eliminate the cause of the problem and find a solution to more consistency in the device's manufacturing process.

💡 SOLUTION

After examining the defective parts, Gore saw why the pressure vent was malfunctioning: a maladjustment in the design, preventing the ideal integration into the phone. To prevent any water ingress, Gore suggested an optimized pressure vent design to bridge the gap and improved robustness and reliability. It was a close collaboration, so Gore developed an understanding of the production process, too. Thereby the newly configured pressure vent was designed to the client's existing installation method without requiring any further adaptations.



★ RESULTS

Thanks to our support, the smartphone OEM was able to:

- eradicate all the product defects and improve its reliability and robustness
- provide customers with a superb quality phone that had no reported issues in a six-month period
- gain a better understanding of its own development process thanks to the new design guideline

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/pressurevent-phone-story



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.

INTERNATIONAL CONTACTS

Australia +61 2 9473 6800
Benelux +49 89 4612 2211
China +86 21 5172 8299
France +33 1 5695 6565
Germany +49 89 4612 2211

India +91 22 6768 7000
Italy +39 045 6209 240
Japan +81 3 6746 2570
Korea +82 2 393 3411
Mexico +52 81 8288 1283

Scandinavia +46 31 706 7800
Singapore +65 6733 2882
South America +55 11 5502 7800
Spain +34 93 480 6900
Taiwan +886 2 2173 7799

United Kingdom +44 1506 460123
USA +1 410 506 7812

W. L. Gore & Associates, Inc

401 Airport Road • Elkton, MD 21921 • USA
Phone: +1 410 506 7812 (USA) • Toll free: +1 800 523 4673
Fax: +1 410 506 8749 • Email: portableelectronics@wlgore.com
gore.com/portableelectronics

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