



Case Study: GORE® MEMS Protective Vents Style 100 for TWS Earbuds

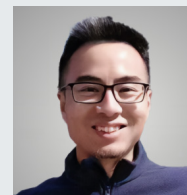
Conquer Particle Contamination with GORE® MEMS Protective Vents

? CHALLENGE

In the past years, true wireless stereo (TWS) earbuds became an integral part of our daily lives. As more and more competitors entered the growing market, **consumer expectations regarding acoustic quality and durability increased** accordingly. When a renowned brand of TWS earbuds experienced a rising number of market returns, they feared a reputation loss they were not willing to take on.

With the results from their analysis, our customer knew they had to tackle the contamination issue at its roots in the manufacturing process. **Partnering with Gore, they were able to find an effective solution to solve the matter in the shortest possible time.**

"Our customer decided to do a tear down to find the source of the problem. They discovered dust particles within the device, proving their hypothesis of particle contamination during the SMT process."



James Yan, Field Sales Associate



Case Study: GORE® MEMS Protective Vents Style 100 for TWS Earbuds

Conquer Particle Contamination with GORE® MEMS Protective Vents



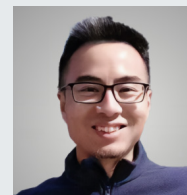
SOLUTION

Our engineers quickly understood the customer's problem and knew how to solve it. They proposed a solution our customer is already relying on in further projects: **GORE® MEMS Protective Vents Style 100**.

Once our customer agreed to the solution, the real work began. The Gore engineering team closely collaborated with our customer's design team to create a tailored version for the perfect fit.

With the customized solution at hand, the Gore engineers consulted with our customer's OEMs and **provided local support at their production sites**. As each facility has individual processes and needs, our application engineers had to answer various questions and concerns. Nevertheless, their experience proved invaluable, **ensuring seamless integration** of the MEMS Protective Vent in the production processes.

"Having an experienced application engineer who is able to answer all kinds of questions and who understands how different facilities work is essential for our customer."



James Yan, Field Sales Associate

THE TECHNOLOGY BEHIND THE SOLUTION: GORE® MEMS PROTECTIVE VENTS STYLE 100

GORE® MEMS Protective Vents Style 100 are designed to meet the specific needs of both circuit board assembly and micro-phone manufacturers. For specifications and more detailed information on installation, please visit gore.com/mems100.

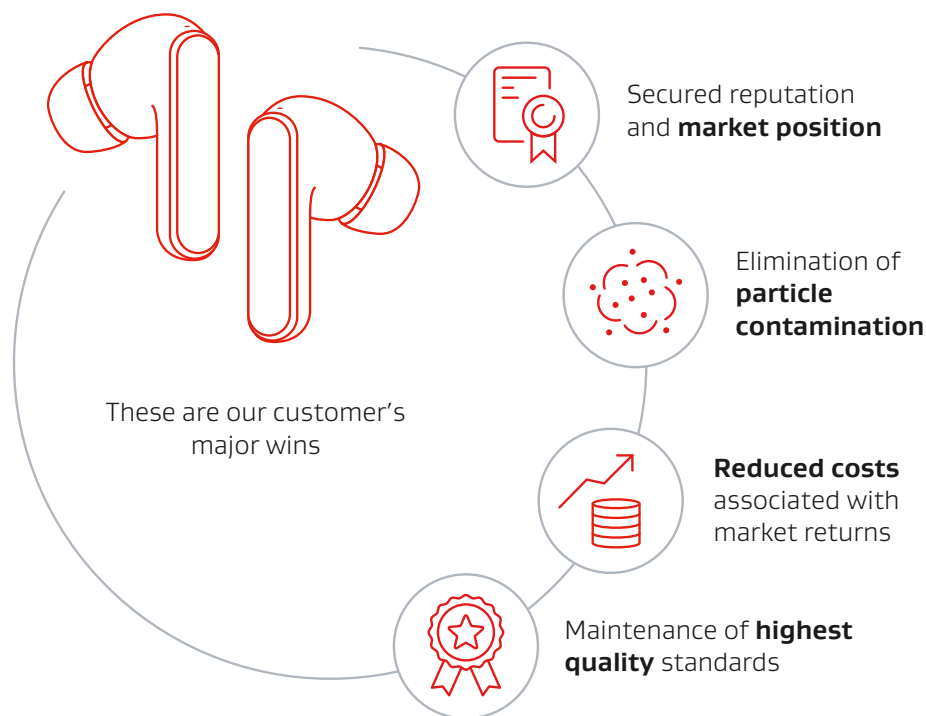


Case Study: GORE® MEMS Protective Vents Style 100 for TWS Earbuds

Conquer Particle Contamination with GORE® MEMS Protective Vents

★ RESULTS

In the end, our engineers were able to develop a customized vent that was ready for mass production in only two weeks.

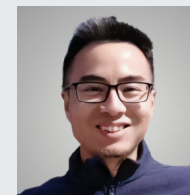


WANT TO KNOW MORE?

To learn more, visit our website: gore.com/portableelectronics

Or check out more of our case studies: gore.com/mestories

"The MEMS Style 100 Vents help our customer to focus on the important question and take their mind of contamination during the assembly."



James Yan, Field Sales Associate



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

Leading OEMs have purchased over 10 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

Grounded in a deep understanding of material science and acoustics, Gore can provide the optimum venting solution. We balance trade-offs between diverse problems such as adverse operating environments, immersion events and acoustic performance.

RELIABLE PERFORMANCE

To ensure products are “fit for use”, every Gore product must adhere to the highest standards of quality, performance and reliability. Through a comprehensive understanding of end-use applications and requirements, our products do what they say they will do.

FAST DEVELOPMENT

The mobile electronics industry develops and releases new products quickly. Our fast response to customer requests during the development process sets us apart. Gore supports this need for quickness with designs and prototypes to ensure engineering teams can meet their project timelines and their application requirements.

SUPPLY SECURITY

Leading OEMs specify Gore because we have consistently proven our ability to quickly ramp up to supply vents for projects of over 10 million devices per year and to continue to supply high quality products on-time without disruption.

MATERIAL SCIENCE

Gore is a global materials science company dedicated to transforming industries and improving lives. Gore develops materials with microporous structures that provide desirable attributes and performance characteristics to engineer vents and other products used in a variety of markets and industries.

GLOBAL SUPPORT

Our global teams of sales associates, application engineers, manufacturing engineers, and research personnel enable us to provide agile and robust support to customers around the world.

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 219221 • 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

FOR INDUSTRIAL USE ONLY. Not for use in food, drug, cosmetic or medical device manufacturing, processing, or packaging operations.

All technical information and advice given here is based on Gore's previous experiences and/or test results. Gore gives this information to the best of its knowledge, but assumes no legal responsibility. Customers are asked to check the suitability and usability in the specific application, since the performance of the product can only be judged when all necessary operating data are available. The above information is subject to change and is not to be used for specification purposes.

Gore's terms and conditions of sale apply to the sale of the products by Gore. GORE, *Together, Improving Life* and designs are trademarks of W. L. Gore & Associates.

© 2024 W. L. Gore & Associates, Inc.

Together, improving life

