Sealing covers from Freudenberg Sealing Technologies provide reliable and customized sealing. Our sealing covers are available with additional functions and a wide variety of dimensions, designs, and materials.

Sealing Covers Applications and Functions

During the manufacture of seal housings, holes are often drilled which are subsequently closed after assembly or during maintenance. Sealing caps by Freudenberg Sealing Technologies are the ideal solution for this application. Sealing caps are used as static bearing seals, as sealing caps for circular drill holes in housings, and as shaft duct seals.

Sealing caps GA and GSA are conventional designs (with press-fit) used as static seals for circular drill holes.

- **The GA design** (Figure 1) is a sealing cap which has the exterior of its reinforcement plate completely rubberized. The advantage of this is greater tolerance compensation where assembly spaces consist of various materials and are subject to thermal expansion.

- **The GSA design** (Figure 2) is a sealing cap with a vulcanized reinforcement plate the exterior of which is partly rubberized. This enables a metal seat to be used. Advantage: in tighter assembly spaces and with more rigid housings, this GSA sealing cap’s firmer seat provides significantly improved pressure resistance.

VALUES FOR THE CUSTOMER

Freudenberg Sealing Technologies sealing covers provide:

- Cost-savings due to standardized series and simple assembly
- Leak-proof and secure sealing even with such factors as thermal expansion and very rough drill hole surfaces
- Robust, long-lived construction
- Outer surfaces can be painted
- Superior quality materials
- Resistance against all mineral oils
- Fast and simple sealing of drill holes

Figure 1. GA Design

Figure 2. GSA Design
FEATURES AND BENEFITS

Sealing caps by Freudenberg are the optimal sealing solution for a multitude of applications. Customized sealing caps allow several functions to be integrated in a single component. Dimensions, designs, and materials can be customized—adapted for a specific application or created for unique customer demands.

Sealing cap with disassembly function
Sealing caps by Freudenberg have a rubberized center hole, enabling easy opening and disassembly.

Sealing cap with oil routing function
In car transmissions, oil circulation is very often achieved by means of hollow shafts. Freudenberg Sealing Technologies has developed a special sealing cap with an integrated steel or synthetic element which acts to restrict and channel the flow of oil, routing it back to the hollow shaft. This unique feature offers tremendous savings.

Customized sealing caps in vehicle transmissions
In manual and automatic transmissions, sealing caps are used in sealing drill holes. Individual requirement solutions enabling ease of assembly and special functions and/or materials can be addressed during the product design phase as well. Additionally, customized sealing caps are necessary for transmissions in special cases, e.g., where special assembly space requirements, non-standard requirements in operating temperature/media stability, and special assembly/disassembly requirements are involved.

Customized sealing caps in engines
In combustion engines, individualized sealing caps are used to seal the camshaft tunnel. A synthetic sealing cap with a vulcanized gasket and retaining clips is a proven solution. Their are a number of advantages here:

- Reduced installation effort makes manual assembly possible
- Easy disassembly and secure sealing
- Less weight
- Retaining clips ensure a secure seal grip

The information contained herein is believed to be reliable, but no representation, guarantees or warranties of any kind are made to its accuracy or suitability for any purpose. The information presented herein is based on laboratory testing and does not necessarily indicate end product performance. Full scale testing and end product performance are the responsibility of the user.

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