



ENCASE™ Fill Port Gaskets

ENCASE™ gaskets deliver the ingenuity and high performance of GORE® Universal Pipe Gasket technology in a wide array of custom designs for rail tank cars. ENCASE is ideal for troublesome connections with bolt load and torque limitations.

ENCASE gaskets eliminate issues common to elastomer gaskets, such as gasket damage from over-torquing, loss of bolts due to creep, or chemical attacks due to incorrect material selection.

ENCASE™



Made with GORE® Universal Pipe Gasket

Reduce leaks and achieve high-tightness sealing with extremely low creep for tank cars in critical service applications.

- ▶ 100% expanded PTFE
- ▶ Broadest range of chemical resistance
- ▶ High purity/non-contaminating
- ▶ Low stress-to-seal
- ▶ Low relaxation & torque loss



VSP Technologies deploys a team of Engineers and Fluid Sealing Specialists who provide engineered solutions for your unique sealing requirements.

8140 Quality Drive, Prince George, VA 23875
800-334-6013 • vsptechnologies.com

APPLICATIONS: ENCASE VS. CONVENTIONAL GASKET

Sulfuric Acid Fill Ports

Challenge: Elastomer Gaskets are not stable.

- ▶ Elastomer gasket relax resulting in loss of bolt load and gasket stress causing loose bolts and loss of sealing.
- ▶ Elastomer gaskets are easily damaged when used with impact wrenches.

Solution:

- ▶ ENCASE gaskets pass the installation pressure test using varying assembly techniques.
- ▶ Lab testing on fill ports shows the ENCASE gasket retained XX% more of the assembly torque after XX hours than an

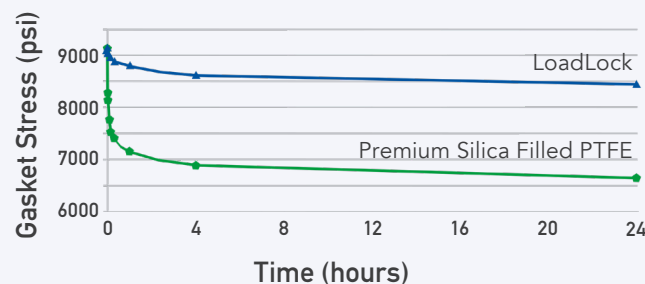
Rubber-Lined & Plastic Flange Connections

Challenge: Lower allowable torque for rubber-lined and plastic flange connections limits gasket material selection.

- ▶ Filled PTFE and ePTFE gaskets cannot seal at low torque values, resulting in the use of full-face elastomer gaskets.
- ▶ Metallic flanges using filled PTFE and ePTFE gaskets do not seal at low torque values.
- ▶ Elastomer gaskets relax, causing loss of stress, and loose bolts.

Solution:

- ▶ ENCASE gaskets drastically lower creep and provide the broadest chemical compatibility of any gasket material.

Relaxation Test**Minimal stress relaxation**

- ▶ Potential for NO Re-Torque™