gasket resources incorporated®

SecureSnap™

Inorganic Filler with Pure PTFE Resins
Filled PTFE Gasket Material
ASTM F104: F452111-A9B5E11K6M6

THE CHALLENGE:
A potential problem with a standard AAR-1 manway gasket is that the conventional design has to be precisely made with tight tolerances to fit snugly into a dovetailed groove so that it remains in place once installed. When this does not happen the potential for NARs is heightened. The required tolerances for these conventional style gaskets are difficult to achieve, and create quite a bit of scrap during the manufacturing process. In addition, if the ID is too small, installation becomes difficult if not impossible. On the other hand, if the ID is too large the gasket will easily fall out of the groove and into the manway nozzle. The result of this happening will cause leaks, splashes, and other releases from an improperly secured manway cover.
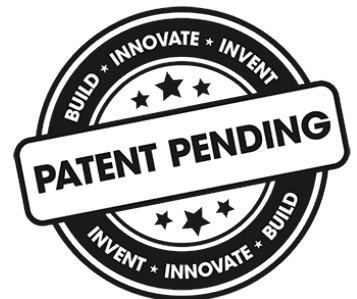

SecureSnap™

THE SOLUTION:
The increased flexibility of the SecureSnap™ manway gasket enables the user to install the gaskets more quickly than the conventional gasket. The tabs allow for the SecureSnap™ manway gasket to easily snap into the dovetail groove. Thus, the time required to install the SecureSnap™ gasket is significantly less than the time required to install a standard manway gasket.

THE BENEFITS:
The flexibility of the SecureSnap™ manway gasket also renders the gaskets more versatile than the conventional gasket. The SecureSnap™ gasket will accommodate more than one style of manway system (dependent on end user approval) meaning that distributors can stock one size of gasket for multiple manway designs, therefore reducing inventory and overall cost.

Gasket Factors	1/16"	1/8"
m	2.2	4.6
Y psi (MPa)	1,937 (13.4)	1,639 (11.3)
G_b psi (MPa)	639 (4.4)	495 (3.4)
a	0.220	0.262
G_s psi (MPa	55 (0.379)	65 (0.448)

PATENT PENDING
BUILD ★ INNOVATE ★ INVENT
INVENT ★ INNOVATE ★ BUILD


DURLON®
SEALING SOLUTIONS

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![SecureSnap logo]

Physical Properties	
Color	Blue
Filler System	Inorganic

Temp.: Min
        Max
        Continuous, Max
	-212°C (-350°F)
	271°C (520°F)
	260°C (500°F)

Pressure, max, bar (psi)	103 (1,500)
Density, g/cc (lbs/ft³)	2.2 (138)
Compressibility, %	8-16
Recovery, %	40
Creep Relaxation, %	30
Tensile Strength, MPa (psi)	13.8 (2,000)
Sealability: ASTM 2378 (Nitrogen)	0.01 cc/min
Leakage, mbar .1 (m .5) TA-Luft (VDI 2440) iBar (14.5 psi) @180°C (392°F)	7.55×10^{-6}
Volume Resistivity, ASTM D257	1.0×10^{5} (ohm-cm)
Dielectric Breakdown ASTM D149, kV/mm (V/mil)	16 (406)
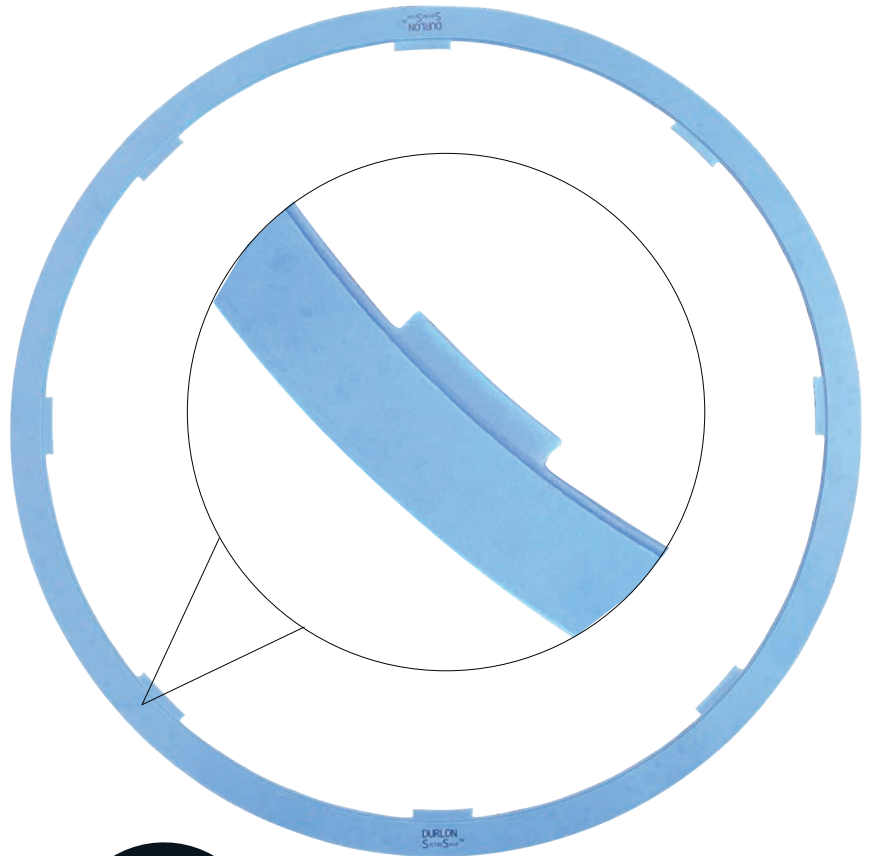
Certifications	
API 6FA* , 3rd Edition Fire Test	Passed
WRAS	Approved Material
USP for Plastic Class VI	Met requirements - 121°C (250°F)
FDA	Conforms to required 21 CFR 177.1550
TA-luft (VDI Guideline 2440)	Approved Material
ABS-PDA & Pamphlet 95	Approved Material, chlorine ins., DNV-GL
(EC) 1935/2004 & EU (10/2011)	Approved Material

Note: ASTM properties are based on 1/16" sheet thickness, except ASTM F38 which is based on 1/32" sheet thickness. This is a general guide only and should not be the sole means of accepting or rejecting this material. The data listed here falls within the normal range of product properties, but should not be used to establish specifications limits nor used alone as the basis of design. For applications above Class 300, contact our technical department.

Warning: This gasket material should never be recommended when both temperature and pressure are at the maximum listed. Properties and applications stated are typical. No applications should be undertaken by anyone without independent study and evaluation for suitability. Never use more than one gasket in one flange joint and never reuse a gasket. Improper use or gasket selection could cause property damage and/or serious injury. Data reported is a compilation of field testing, field service reports and/or in-house testing. While the utmost care has gone into publishing the information contained herein, we assume no responsibility for errors. Specifications and information contained within are subject to change without notice. This edition cancels and obsoletes all previous editions.