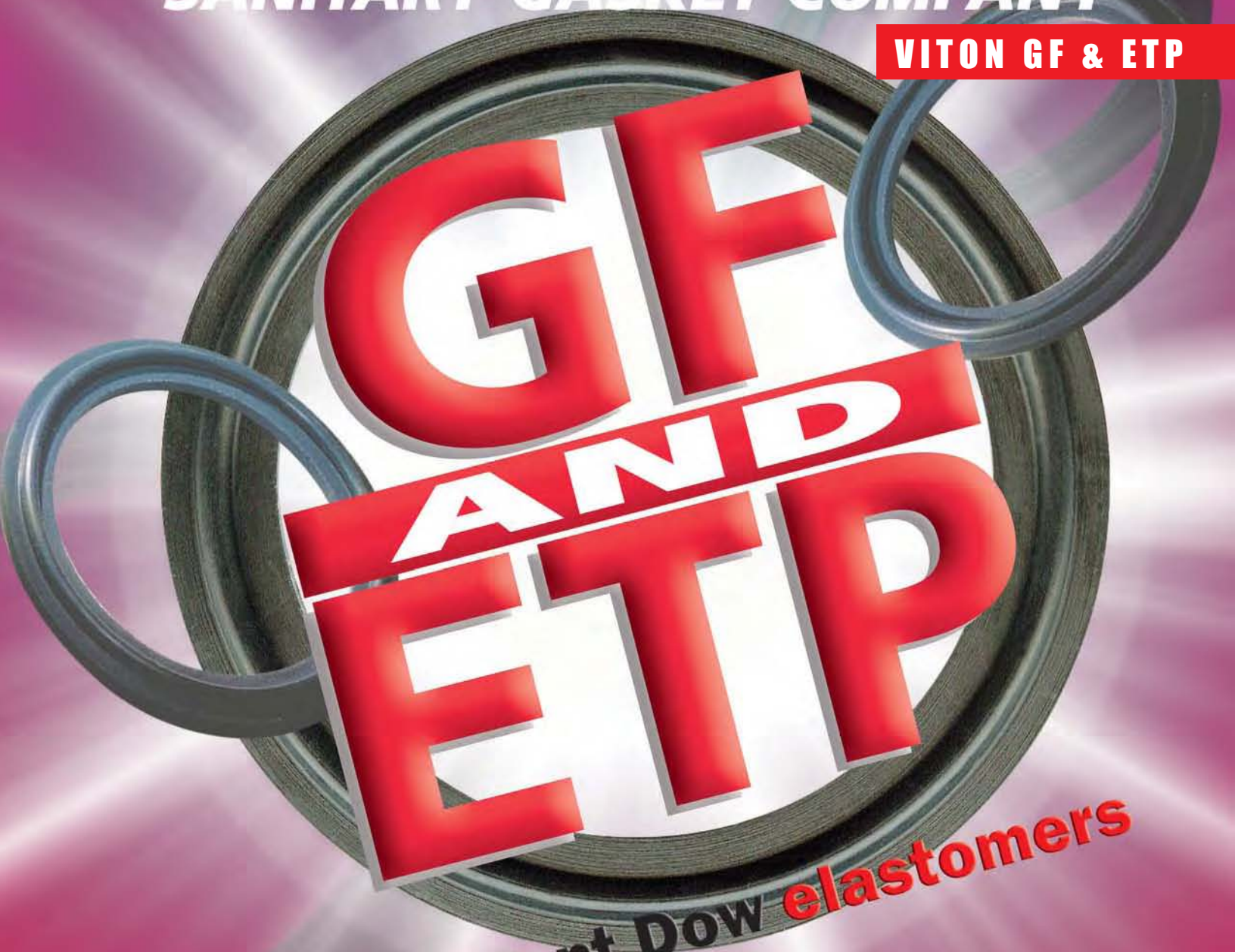
NEWMAN

SANITARY GASKET COMPANY

VITON GF & ETP



DuPont Dow elastomers

(APA) ADVANCED POLYMER ARCHITECTURE

- CHEMICAL RESISTANT - GREATER THAN VITON® "A"
- SUPERIOR SEALING QUALITIES
- LONGER EXTENDED LIFE
- EXCELLENT C.I.P. PROPERTIES

DuPont Dow elastomers / NEWMAN SANITARY GASKET COMPANY

Announces Viton® "GF" and Viton® "ETP" made with Advanced Polymer Architecture (APA)

Newman Sanitary Gasket Company is a leading manufacturer of sanitary gaskets, o-rings and custom molded parts for the food and pharmaceutical processing industries. You will find Newman Sanitary Gasket company has an unsurpassed tradition of quality, performance, customer service, distribution and development. With a long history of quality manufactured components for the pharmaceutical processing industry Newman is proud to announce the availability of the new DuPont Dow Elastomer Viton® "GF" and "ETP" to its line of quality elastomers for the manufacturing of sanitary components.

Viton® "GF" and Viton® "ETP" are two new super chemical resistant Viton® compounds developed by DuPont Dow Performance Elastomers to solve critical sealing problems. Viton® "GF" and Viton® "ETP" are much more chemical resistant than the old standby Viton® "A", which has been the backbone of the Viton® compound line until now.

The superiority of Viton® "GF", which will replace Teflon® in most incidents, allowing processing operations the benefit of elastomer gaskets for the first time. Viton® "ETP" is slightly below Kalrez® in performance allowing additional chemical resistance where it is required further extending the range of elastomer gaskets for very critical sealing applications.

These new Viton® compounds have an extended life over Viton® "A" on gaskets and special parts. Viton® "GF" and Viton® "ETP" will solve sealing problems in critical processing areas. We have the solution to a single compound material for all sealing areas in your processing facility. Difficult sealing problems are in the past with Viton® "GF" and Viton® "ETP". One compound for gaskets, "O"-Rings and custom molded parts is yours at last.

As with any material, evaluation of any compound under end-use conditions prior to specification is essential.

Viton® made with Advanced Polymer Architecture (APA) provides FDA compliance and more.

Improved steam and fluids resistance is key in the food and pharmaceutical applications. Viton® "A" quickly became the standard in steam resistant pharmaceutical fluoroelastomer sealing applications. Despite its improved steam resistance, Viton® "A" exhibited inadequate service in some sterilization processes, particularly those that involved the use of highly caustic chemicals. As a result pharmaceutical and food manufacturers often were forced to use other compounds that worked better with a wider variety of cleaning fluids but with poor steam resistance. The combination of excellent steam resistance and fluid resistance has been demonstrated with the most recent Viton® specialty polymers "GF" and "ETP".

Viton® made with APA provides a new level of performance.

Viton® made with APA is a proprietary development by DuPont Dow Elastomers that improves the performance of specialty fluoroelastomers. The following offers a brief description of Viton® polymers that provide FDA compliance and their unique capabilities.

- **Viton® GF** is a high-fluorine, peroxide-cured type of Viton®. Compared to bisphenol-cured dipolymer FKM, such as Viton® A-410C, vulcanizates based on Viton® "GF" exhibit excellent steam resistance and superior resistance to a much wider variety of cleaning fluids. Vulcanizates based on Viton® "GF" exhibit excellent physical properties, including resistance to compression set.
- **Viton® "ETP"** is a very unique copolymer that exhibits excellent steam resistance and resistance to attack by an exceptionally broad variety of chemicals and fluids, including aliphatic and aromatic hydrocarbons, acids, bases, all types of alcohols and even low molecular weight ketones, esters, and aldehydes.

Figure 1
Viton® made with APA vs Vition® A-401C
% of Original Tensile Strength* in 80 psi Steam (156 C) after 672 hours

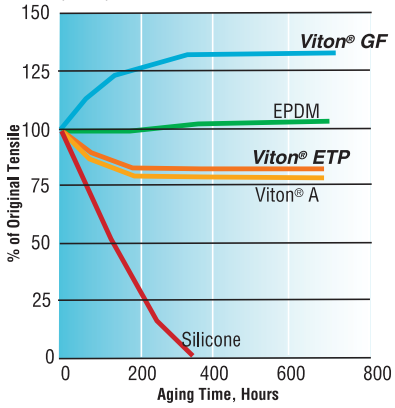


Figure 2
Viton® made with APA vs Vition® A-401C and Other Elastomers
% Volume Change* Various Cleaning Fluids after 1008 Hours at 70 C

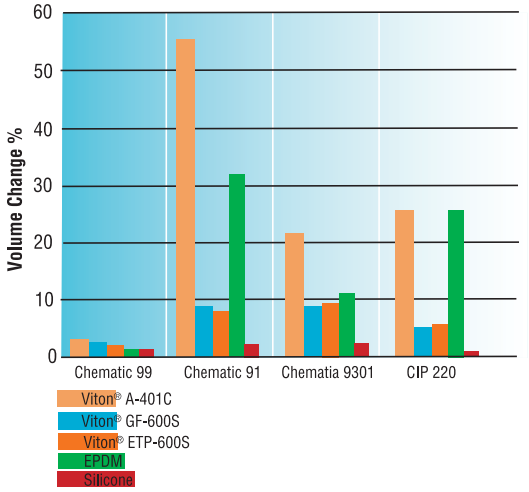
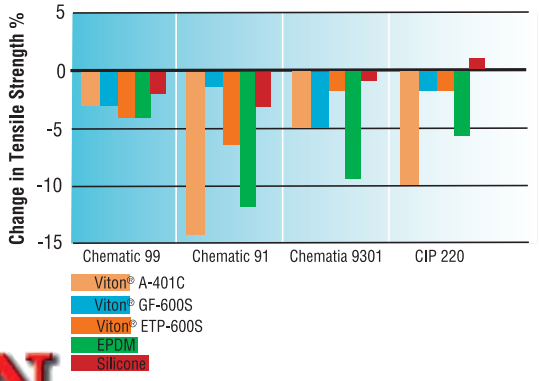


Figure 3
Viton® made with APA vs Vition® A-401C and Other Elastomers
Change in Tensile Strength* in Various Cleaning Fluids after 1008 Hours at 70 C



ISO 9001:2000 CERTIFICATION REGISTERED

NEWMAN SANITARY GASKET COMPANY

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