

**James Walker<sup>®</sup>**

## James Walker<sup>®</sup> Gylon<sup>®</sup> modified PTFE gaskets

- *Excellent chemical resistance*
- *Suitable for food and pharmaceutical use*
- *Resistant to cold flow / creep*
- *Useable in high pressure / temperature applications*
- *Superior performance over conventional PTFE*



High Performance Sealing Technology



## The perfect combination

James Walker® Gylon® brings together two of the most respected names in sealing technology to provide the world's industries with the products and service levels they demand; the capability to deliver and support the best, high-performance materials and provide unrivalled sealing solutions.

With over 125 years of experience in the development of sealing technology James Walker is a true global service provider with a network of group companies and distributors supplying over 100 countries. This effort is backed up by 50 distribution, engineering and customer support sites plus manufacturing bases in Europe, North America, Australasia, South Africa and Asia.

As an experienced manufacturer of class-leading, high-performance elastomers and other market-leading sealing solutions, James Walker recognises Gylon® as a best in class material that fits with the company philosophy of supplying only the best possible sealing products.

Gylon® is widely recognised as the best modified PTFE sheet material available for an extensive range of applications, particularly where aggressive chemicals are being handled or hygiene is a top priority.

Now a ground breaking agreement between James Walker & Co Ltd and Garlock Sealing Technologies means that we can provide the perfect combination; the best product for the job, in Gylon modified PTFE, backed-up by the service, support and applications engineering knowledge of James Walker.

## The benefits of James Walker® Gylon®

PTFE has long been established for its excellence in chemical resistance and for being inherently hygienic, non-toxic and non-tainting. In operational use however it does have some shortcomings; being susceptible to creep under cold conditions and lacking dimensional stability when subject to thermal and pressure cycling.

The unique Gylon® manufacturing process retains all the positive characteristics of PTFE but minimises or eliminates the creep and flow problems experienced with conventional products.

### The James Walker® Gylon® family of modified PTFE materials offers:

- Excellent chemical resistance
- Improved performance over conventional PTFE
- Resistance to cold flow / creep
- Temperature stable from -268°C to +260°C
- Suitable for high temperature - pressure applications
- Improved seal & excellent bolt torque retention
- Outstanding dimensional stability under thermal stress
- Reduced product loss and emissions
- Approved for pharmaceutical and food processing use
- TUV certified in accordance with TA-Luft requirements
- Resistance to wear and abrasion
- Supplied as precision cut gaskets to any shape, size and quantity or in sheet form to max size 1500mm x 1500mm
- Available in a range of 5 thicknesses  
0.8mm, 1.0mm, 1.6mm, 2.0mm and 3.2mm

**Health warning:** If PTFE or fluoroelastomer (eg, FKM, FFKM, FEPM) products are heated to elevated temperatures, fumes will be produced which may give unpleasant effects, if inhaled. Whilst some fumes are emitted below 250°C from fluoroelastomers or below 300°C from PTFE, the effect at these temperatures is negligible. Care should be taken to avoid contaminating tobacco with particles of PTFE or fluoroelastomer, or with PTFE dispersion, which may remain on hands or clothing.

Information in this publication and otherwise supplied to users is based on our general experience and is given in good faith, but because of factors which are outside our knowledge and control and affect the use of products, no warranty is given or is to be implied with respect to such information. Specifications are subject to change without notice.

Statements of operating limits quoted in this publication are not an indication that these values can be applied simultaneously. Material Safety Data Sheets (MSDS) are available on request.

To ensure that you are working with the very latest product specifications, please consult the relevant section of the James Walker website [www.jameswalker.biz](http://www.jameswalker.biz)

Gylon® is a registered trade mark of Garlock Sealing Technologies

## James Walker® Gylon® 3500

Providing significant advantages over conventional PTFE materials in higher pressure – temperature applications, this is the ideal multi-purpose gasket for the chemical and petro-chemical industries.



Resistant to strong acids (except hydrofluoric), solvents, hydrocarbons, water, steam, chlorine, and cryogenics. Conforms to FDA regulations.

**Composition:** PTFE with silica

**Temperature:** Minimum: -268°C (-450°F)  
Continuous Max: +260°C (+500°F)

**Pressure:** Maximum 8.3MPa/83bar (1200psig)

**Flammability:** Will not burn.

**Bacterial Growth:** Does not support bacterial growth.

**Meets Specification:** ABS (American Bureau of Shipping), FDA (Food and Drug Administration) and USDA (US Department of Agriculture).

## James Walker® Gylon® 3504

Highly compressible form of Gylon, this version is particularly suited to applications that are sensitive to bolt loads such as glass-lined, enamelled or plastic flanges.



Resistant to moderate concentrations of acids and some caustics, hydrocarbons, solvents, water, refrigerants, and cryogenics. Conforms to FDA regulations.

**Composition:** PTFE with glass microspheres

**Temperature:** Minimum: -268°C (-450°F)  
Continuous Max: +260°C (+500°F)

**Pressure:** Maximum 5.5MPa/55bar (800psig)

**Flammability:** Will not burn.

**Bacterial Growth:** Does not support bacterial growth.

**Meets Specification:** ABS (American Bureau of Shipping), FDA (Food and Drug Administration) and USP (US Pharmacopoeia).

## James Walker® Gylon® 3510

The most resistant to chemical attack of our Gylon grades, James Walker Gylon 3510 is suitable for applications involving highly aggressive media such as hydrofluoric acid, electrolytic baths, aluminium fluoride and caustic potash solution.



Resistant to strong caustics, moderate acids, chlorine, gases, water, steam, hydrocarbons, and cryogenics. Conforms to FDA regulations.

**Composition:** PTFE with barium sulphate

**Temperature:** Minimum: -268°C (-450°F)  
Continuous Max: +260°C (+500°F)

**Pressure:** Maximum 8.3MPa/83bar (1200psig)

**Flammability:** Will not burn.

**Bacterial Growth:** Does not support bacterial growth.

**Meets Specification:** ABS (American Bureau of Shipping) and FDA (Food and Drug Administration).

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CERTIFICATE No. FM 01269  
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