

Supagraf®

Premier

World-beating fugitive emissions control packing

Supagraf® Premier is one of James Walker's top-of-the-range fugitive emission control packing for valves.

Third party tested to all known industry standards producing exceptional performance – 10.5ppmV average emission level in API 622 2nd edition test with no adjustments.

It is manufactured in exfoliated high purity 98% graphite, reinforced in a novel way to provide additional strength and resistance to pressure and extrusion. It incorporates an advanced lubricant system that prevents the pick-up of graphite on valve stems.

Prime features

- Third party verified emission control performance.
- Suitable for both rotary as well as rising-stem valve application.
- Low friction performance without graphite pick-up reducing the torque needed for efficient valve action.
- Fire safe capability confirmed by third-party certification according to API 607 Edition 4 Fire Safety

Typical applications

Designed for harsh operating conditions where fugitive emissions from all types of valves need to be reduced to well below 50ppm. It is well proven and widely used in systems handling fluid media such as hydrocarbon liquid fuels and gases, lubricating oils and processing chemicals.

Specifications

Supagraf® Premier is third-party tested and certified to:

- ISO 15848-1 Class AH (fugitive emissions): Certified by ITIS BV at 69 MPa (static) with a five-ring set in a BSM valve. Emission level at 69 MPa/690 bar (10,000 psi) was ≤ 5 ppmV.
- API 622 2nd Edition. Average emission level of 10.5ppmV over five thermal cycles and 1510 mechanical cycles with no adjustment made.
- TA Luft / VDI 2440 Rev. 07.2002.

- Shell specification SPE 77/312 Class AH, Rev. 10.2002.
- Shell specification SPE 77/312 Rev 06.2007: Class B rating with 47.4 MPa/474 bar (6875 psi) helium in Class 2500 valve. Seating stress of 101 MPa (14,649 psi).
- API 607 Edition 4 Fire Safety - to an extended specification.
- Conforms to Shell material specification MESC SPE 85/204.

Chemical properties

Compatible with media in the range pH 1-14, excluding strong oxidising agents. It has negligible volatile content.

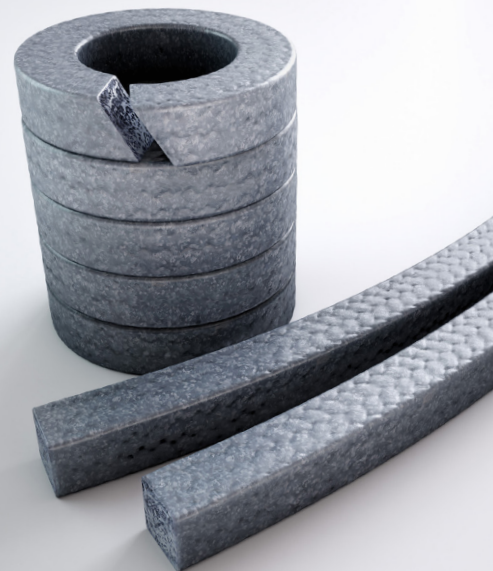
How supplied

All popular square sections from 3 mm ($\frac{1}{8}$ " upwards in boxes containing 8 m (26' 3"), in coil form or on spools as detailed in the table below. Also supplied as split preformed rings and sets.

Non-standard square or rectangular sections made to order.

Spool ordering information			
Size		Packaged $\pm 10\%$	
mm	inch	kg	lbs
3.0	$\frac{1}{8}$	0.9	2
5.0	$\frac{3}{16}$	0.9	2
6.5	$\frac{1}{4}$	0.9	2
8.0	$\frac{5}{16}$	0.9	2
10.0	-	2.3	5
11.0	$\frac{7}{16}$	2.3	5
12.5	$\frac{1}{2}$	2.3	5
14.0	$\frac{9}{16}$	2.3	5
16.0	$\frac{5}{8}$	4.5	10
20.0	$\frac{13}{16}$	4.5	10
22.0	$\frac{7}{8}$	4.5	10
25.0	1	4.5	10

Notes: *Consult James Walker for higher pressures.



VALVE STEM DUTIES

Maximum Operating Temperature: Oxidising conditions

+450°C (+842°F)

Minimum Operating Temperature:

-200°C (-328°F)

Maximum System Pressure (standard)*:

25 MPa/250 bar (3626 psi)

Certified Pressure in BSM Valve:

69 MPa/690 bar (10,000 psi)

APPROVALS



- ISO 15848-1 Class AH
- API 622 2nd Edition
- TA Luft / VDI 2440 Rev. 07.2002
- Shell MESC SPE 85/204
- Shell specification SPE 77/312 Class A
- Shell specification SPE 77/312 Class B
- API 607 Edition 4 Fire Safety

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Health warning: If PTFE products are heated to elevated temperatures, fumes will be produced which may give unpleasant effects, if inhaled. Whilst some fumes are emitted below 300°C (572°F) from PTFE, the effect at these temperatures is negligible. Care should be taken to avoid contaminating tobacco with particles of PTFE or PTFE dispersion, which may remain on hands or clothing. Safety Data Sheets (SDS) are available on request.

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To ensure you are working with the very latest product specifications, please consult the relevant section of the James Walker website: www.jameswalker.biz.

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