



NEW PTFE PRODUCTS 2015

TFM™ HP-DIGESTION TUBES

For Block Digestion Systems

3M™ Dyneon™ TFM™ The high performance PTFE

- Totally inert, pure, FDA and USP Class VI compliant
- Temperature range to 280°C (300°C for short periods)
- Do not melt to form a liquid phase - an intrinsic SAFETY FACTOR
- Graduated tubes with viewing slot

TFM™ Tubes with Rim

Ref No.	ml	dia. mm	Ht. mm
PC012.0050	50	29.5	122

TFM™ Tubes with Rim and Screw Thread

Ref No.	ml	dia. mm	Ht. mm
PC012.0050.1	50	29.5	122

TFM™ Screw Thread Closures

Ref No.	ml
PC012.1050.1	50



3M™ Dyneon™ TFM™ The high performance version of PTFE

Improved permeability • Increased purity • Improved clarity

Typical values for extractables -

Element	PTFE	TFM™	Element	PTFE	TFM™	Element	PTFE	TFM™
Mg	2.58	1.4	Ni	0.63	0.38	K	18.4	10.0
B	0.085	0.091	Zn	6.43	4.0	Cr	0.09	0.10
Na	18.1	10.0	Mo	0.31	0.06	Fe	5.04	3.1
Cl	21	21	Al	3.7	2.2	Cu	21.4	24.3
Ca	22	11	F	1173	1320	Br	4	4
Mn	0.1	0.002	S	598	500	Pb	2.52	1.8
Value: ng/cm ²			Extractant: 2% Nitric acid for 2 days at 20°C.			Origin: Dyneon™		

We manufacture Digestion Tubes and Ancillaries - Funnels, etc to all specifications and quantities in PTFE and TFM™ for Users and OEM's.

Simply send us your drawing or sample and the quantity required for our offer

COLOURED PTFE JOINT CLAMPS

- Coloured for ease of size identification
- Inert and usable to 280°C
- Adjustable by hand

Ref No.	For joint	Colour
030.010.SG	10/-	Green
.012.SP	12/-	Purple
.014.SY	14/-	Yellow
.019.SB	19/-	Blue
.024.SG	24/-	Green
.029.SR	29/-	Red
.034.SO	34/-	Orange
.040.SY	40/-	Yellow
.045.SB	45/-	Brown



10 LITRE PTFE BOTTLE

An addition to our range of standard PTFE Bottles.

- Of especial value for storage and transportation
- Totally inert
- Temperature range for PTFE -200°C to +280°C
- Do not heat with volatile contents and lid in place
- Manual assist for lid open/close and handling
- Weight = 4.5kg

Ref No.	Ht with Lid (mm)	OD (mm)	Ø Mouth (mm)
015.10000.2	460	26	55



PTFE INTERNAL - EXTERNAL RETRIEVER

Used to retrieve stirrer bars directly from inside a vessel or from the outside to prevent contamination.

- Extra heavy duty magnet totally encapsulated in PTFE
- Totally inert
- Temperature range to 280°C - can be thermally sterilised

Ref No.	L (mm)	Mag W x D x L (mm)	Ø Shaft (mm)
004.3300	300	29 x 16 x 72	10
.3400	400	29 x 16 x 72	10

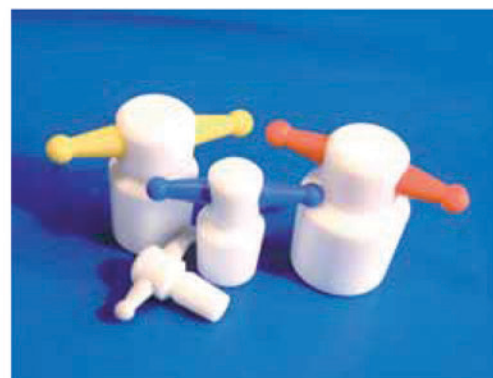


PTFE FLASK STOPPERS

For use with volumetric flasks and similar containers

- Solid construction
- Totally inert
- Temperature range for PTFE -200°C to +280°C

Ref No.	Size (US)	Handle Colour
010.4.08	8	Grey
.4.09	9	Black
.4.13	13	Orange
.4.16	16	White
.4.19	19	Blue
.4.22	22	Green
.4.27	27	Yellow
.4.32	32	Red
.4.38	38	Black



COMING SOON!

WIRELESS PTFE TEMPERATURE MEASUREMENT SYSTEM

Features a probe body with PT1000 Class A Sensor and integral RF Transceiver encapsulated in PTFE, with dedicated receiver.

Enables the precise measurement of temperature in the most aggressive media without the inconvenience or correction required for cables.

Probe Body

- PT1000 Class A Sensor in Stainless Steel tube core fully encapsulated with PTFE
- PTFE is FDA and USP Class VI compliant
- Accuracy +/- 0.1°C
- Totally inert and non-contaminating
- Temperature -180°C to +280°C (300°C for short periods)

Transceiver

- PTFE Encased and integral part of probe system
- Replaceable battery, 2-3 year life
- Signal range as Wi-Fi, ~20 metre
- Band 2.4 Ghz. Fully certified and compliant as a Short Range Device
- Operating temperature for the Transceiver section of the probe is **-20°C to 80°C**

Receiver

- Alphanumeric display of temperature and signal battery status
- Powered via USB from any USB host
- Datalogging with download via USB to CSV file



CUSTOM MANUFACTURING BY COWIE®

As ISO9001 certified specialists in the design and manufacture of PTFE Products we produce Custom items in endless variety in quantities from one to thousands to meet the demands of Laboratory and Process applications.

Such items are supplied to Users and OEM's throughout the world -

Please send your enquiries with full details of the item required including quantities to enquiries@cowie.com.

