



BARNWELL
THE SEAL OF APPROVAL

SEALING SOLUTIONS
FOR THE
WATER AND GAS
INDUSTRIES



M Barnwell Services Ltd, the UK's leading supplier of Fluid Sealing Solutions offers a comprehensive range of sealing products for water and gas applications that conform to European and global standards.

Water and Gas standards compliant sealing products

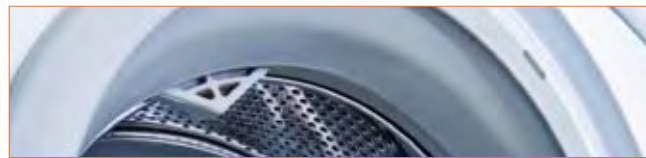
Quality sealing products for applications such as Showers, Household Electrical Appliances, Water Distribution and Sanitary Fixtures are available from the UK's most trusted distributor.

Our reputation for the very highest quality products, unrivalled service and technical advice means that you can be sure that when dealing with Barnwell, you will get the right product for the right application! Now available from stock is the **BS1806 Imperial Range of 'O' Rings**, from **BS005 to BS245**. The material is a **Black Nitrile 70 Shore (NBR)**. The Barnwell compound reference is **MBMS0003**. This compound meets water accreditations **WRc, KTW, ACS** and **NSF61**, plus gas accreditation **EN549**.

SHOWERS



HOUSEHOLD APPLIANCES



WATER DISTRIBUTION



SANITARY FIXTURES

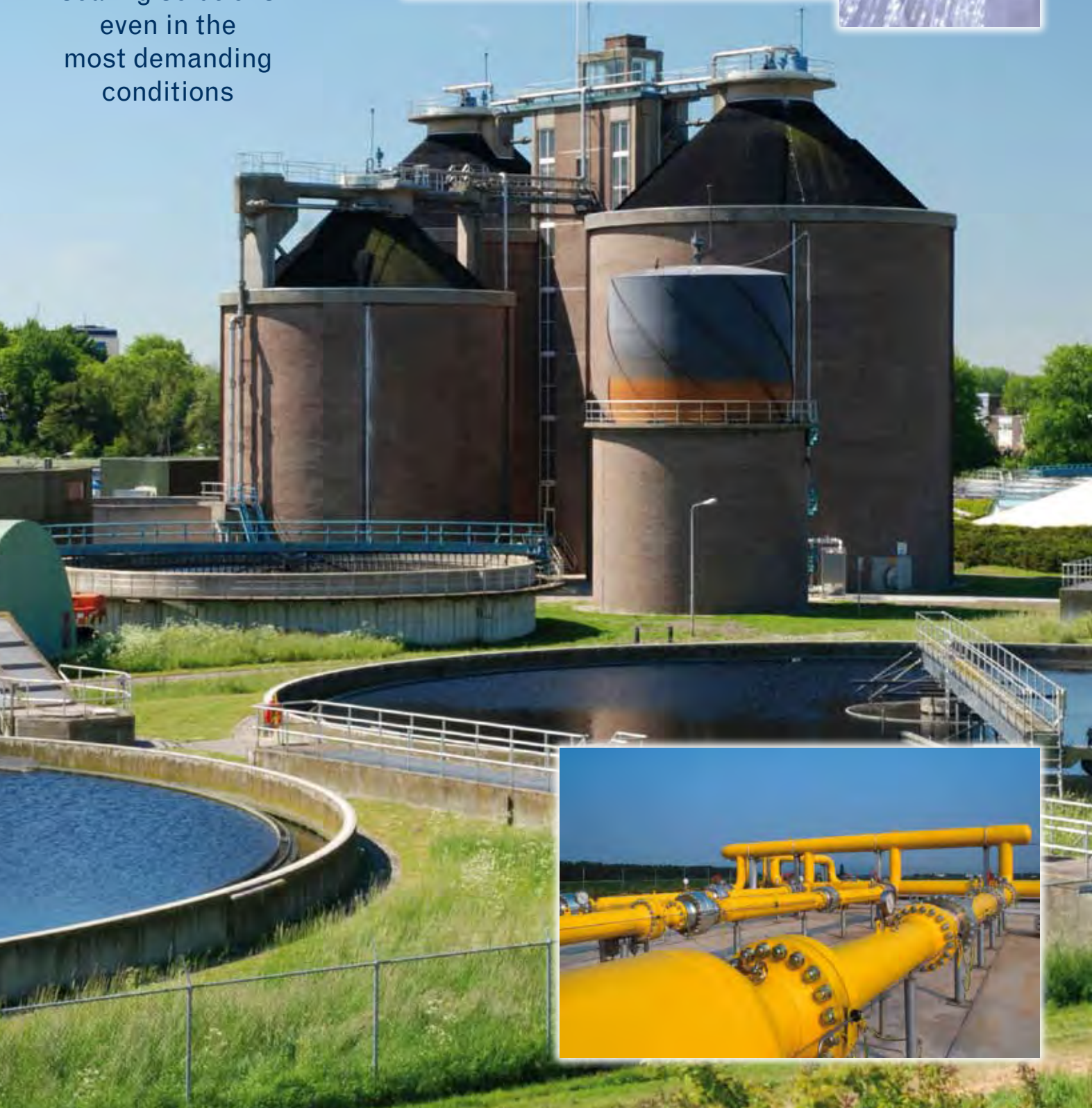


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www.barnwell.co.uk

HARNESSING THE POWER

Barnwell...
sealing solutions
even in the
most demanding
conditions



This product range is immediately available from stock

WRc / WRAS BS1806 IMPERIAL 'O' RINGS RANGE									
Size	Nominal Width	Size	Nominal Width	Size	Nominal Width	Size	Nominal Width	Size	Nominal Width
BS005	1/16	BS027	1/16	BS116	3/32	BS138	3/32	BS224	1/8
BS006	1/16	BS028	1/16	BS117	3/32	BS139	3/32	BS225	1/8
BS007	1/16	BS029	1/16	BS118	3/32	BS140	3/32	BS226	1/8
BS008	1/16	BS030	1/16	BS119	3/32	BS141	3/32	BS227	1/8
BS009	1/16	BS031	1/16	BS120	3/32	BS142	3/32	BS228	1/8
BS010	1/16	BS032	1/16	BS121	3/32	BS143	3/32	BS229	1/8
BS011	1/16	BS033	1/16	BS122	3/32	BS144	3/32	BS230	1/8
BS012	1/16	BS034	1/16	BS123	3/32	BS145	3/32	BS231	1/8
BS013	1/16	BS035	1/16	BS124	3/32	BS210	1/8	BS232	1/8
BS014	1/16	BS036	1/16	BS125	3/32	BS211	1/8	BS233	1/8
BS015	1/16	BS037	1/16	BS126	3/32	BS212	1/8	BS234	1/8
BS016	1/16	BS038	1/16	BS127	3/32	BS213	1/8	BS235	1/8
BS017	1/16	BS039	1/16	BS128	3/32	BS214	1/8	BS236	1/8
BS018	1/16	BS040	1/16	BS129	3/32	BS215	1/8	BS237	1/8
BS019	1/16	BS041	1/16	BS130	3/32	BS216	1/8	BS238	1/8
BS020	1/16	BS042	1/16	BS131	3/32	BS217	1/8	BS239	1/8
BS021	1/16	BS110	3/32	BS132	3/32	BS218	1/8	BS240	1/8
BS022	1/16	BS111	3/32	BS133	3/32	BS219	1/8	BS241	1/8
BS023	1/16	BS112	3/32	BS134	3/32	BS220	1/8	BS242	1/8
BS024	1/16	BS113	3/32	BS135	3/32	BS221	1/8	BS243	1/8
BS025	1/16	BS114	3/32	BS136	3/32	BS222	1/8	BS244	1/8
BS026	1/16	BS115	3/32	BS137	3/32	BS223	1/8	BS245	1/8

A wide range of other compounds that meet the European and global standards / accreditations are available for both water and gas applications. Other sizes and colours, including white, light grey, dark grey, red, blue, yellow, light green and dark green are available on request.

For more information, please contact your nearest Customer Service Centre.



MATERIAL	BARNWELL COMPOUND	SHORE	ACS	AS NZS 4020	DM174	DVGW W270	DVGW W534	EN549	EN681-1	KIWA	KTW	NSF61	ÖNORM	WRc WRAS
EPDM	MBMS0101	40												•
EPDM	MBMS0102	50												•
EPDM	MBMS0103	60												•
EPDM	MBMS0104	70												•
EPDM	MBMS0105	70*	•	•		•	•		•	•	•	•	•	•
EPDM	MBMS0106	70	•		•	•	•		•		•	•	•	•
EPDM	MBMS0107	80												•
EPDM	MBMS0108	90												•
EPDM PEROX	MBMS0109	40									•	•		•
EPDM PEROX	MBMS0110	50	•								•	•		•
EPDM PEROX	MBMS0111	60	•								•	•		•
EPDM PEROX	MBMS0112	70	•			•			•		•	•		•
EPDM PEROX	MBMS0113	80	•								•	•		•
EPDM PEROX	MBMS0114	90									•	•		•
FKM (VITON®)	MBMS0115	40												•
FKM (VITON®)	MBMS0116	50												•
FKM (VITON®)	MBMS0117	60												•
FKM (VITON®)	MBMS0118	70	•			•	•	•			•	•		•
FKM (VITON®)	MBMS0119	80												•
HNBR	MBMS0120	70						•						
NBR	MBMS0121	40	•			•	•				•	•		•
NBR	MBMS0122	50	•			•	•				•	•		•
NBR	MBMS0123	50						•						
NBR	MBMS0124	60	•			•	•				•	•		•
NBR	MBMS0125	60						•						
NBR	MBMS0003	70	•			•					•	•		•
NBR	MBMS0126	70	•			•	•				•	•		•
NBR	MBMS0127	70*												•
NBR	MBMS0128	70						•						
NBR	MBMS0129	70	•					•						
NBR	MBMS0130	75	•					•			•	•	•	•
NBR	MBMS0131	80	•			•	•				•	•		•
NBR	MBMS0132	80						•						
NBR	MBMS0133	90	•			•	•				•	•		•
NBR	MBMS0134	90						•						
SILICONE	MBMS0135	20	•									•		
SILICONE	MBMS0136	30	•									•		
SILICONE	MBMS0137	40	•			•	•				•	•		•
SILICONE	MBMS0138	50	•			•	•				•	•		•
SILICONE	MBMS0139	60	•			•	•				•	•		•
SILICONE	MBMS0140	70	•			•	•				•	•		•
SILICONE	MBMS0141	80	•			•	•				•	•		•

*Shore 70IRHD



TECHNICAL DATA SHEETS

Material Data Sheets
for other compounds/materials
are available on request.



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M BARNWELL SERVICES LTD TECHNICAL DATA SHEET MBMS0003 MATERIAL NBR70

TEST	UNIT OF MEASURE	TESTED VALUES	TEST METHOD
HARDNESS	SHORE 'A'	73	
SPECIFIC GRAVITY	g/cm ³	1.258	ASTM D2240 3s
TENSILE STRENGTH	MPa	16.2	UNI 7092-72
ELONGATION AT BREAK	%	322	ASTM D412C
TEAR RESISTANCE	N/mm	58.4	ASTM D412C
MODULUS AT 100%	MPa	5.8	ASTM D624B
MODULUS AT 300%	MPa	13.1	ASTM D412C
BRITTLE POINT	LC	-30	ASTM D412C
			ASTM D2177/94A

COMPRESSION SET—DEFORMATION 25%			
TIME HOURS	TEMPERATURE LC	RESULT %	TEST METHOD
24	100	8.5	
70	100	16.5	ASTM D395B
70	24	13	ASTM D395B
			ASTM D395B

CHANGE OF PROPERTIES AFTER AGEING							
MEDIA	TIME HOURS	TEMPERATURE LC	HARDNESS %	TENSILE STRENGTH %	ELONGATION %	VOLUME %	TEST METHOD
AIR	72	100	+4	-3.5	-21		ASTM D573
ASTM 1 OIL	72	100	+5	+7	-25.5	-4.2	ASTM D471
ASTM 3 OIL	72	100	-4	+12.5	-20.5	+8.2	ASTM D471
WATER	70	100	-2	-2		+4.5	ASTM D471

APPROVALS
NBR COMPOUND APPROVED TO WRc,KTW,ACS,NSF61,EN549

THE INFORMATION SHOWN IS ACCURATE TO THE EXTENT OF OUR CURRENT TECHNICAL KNOWLEDGE
M BARNWELL SERVICES MAKE NO WARRANTY THAT THE MATERIAL IS SUITABLE FOR ALL APPLICATIONS
CUSTOMERS SHOULD UNDERTAKE THEIR OWN TESTS TO ENSURE SUITABILITY THIS INFORMATION IS
LIABLE TO CHANGE WITHOUT NOTICE

M BARNWELL SERVICES LTD MBMS0003 PAGE 1 OF 1

To find out more about our quality Sealing Kits, contact your nearest Barnwell Customer Service Centre.

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Quality
Barnwell only supplies
the very highest quality products, in materials
with Approved Certificates, including:
WRc, WRAS, KTW, DVGW, BGVV, KIWA, FDA,
USP, NSF/ANSI, ACS,
EU 2002/72, EN661-1, EN 549, EN 682



ISO9001:2008 REGISTERED
CERTIFICATE NUMBER RS00530
BARNWELL HEAD OFFICE

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