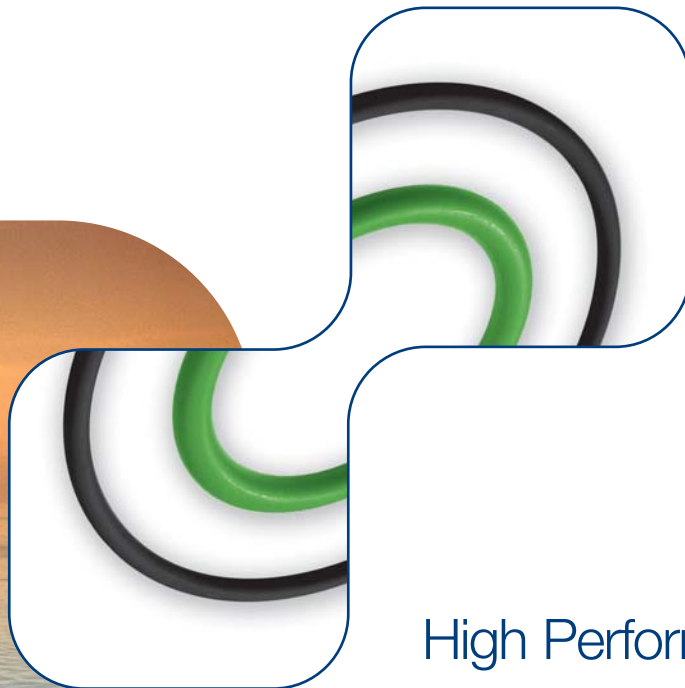




High Performance
NES 337 O-rings
for Surface Ships
and Submarines



Precision Polymer Engineering Ltd





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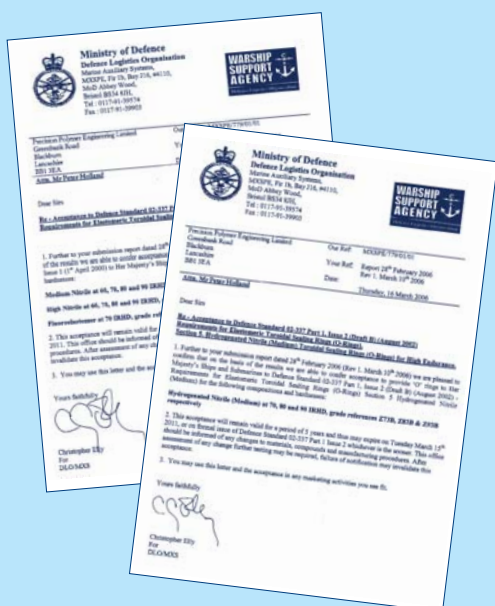
Precision Polymer Engineering Ltd (PPE) is a leading manufacturer of high performance elastomer O-rings for critical sealing applications.

Several elastomer materials from PPE have been accepted for use worldwide by the UK Ministry of Defence under **Defence Standard 02-337 (NES 337)**. This standard defines elastomeric toroidal (O-ring) seals used on Surface Ships and Submarines and their associated systems and equipment which are in use around the world.

PPE offers the complete range of medium and high ACN **nitrile** (NBR) and **fluorocarbon** (FKM) elastomer materials to meet the requirements of this specification. In addition, PPE has also developed a range of **hydrogenated nitrile** (HNBR) elastomer materials which are now being used on high pressure air systems due to their improved service life compared to the standard nitrile materials.

Benefits of using PPE include:

- The shortest lead times available for NES approved parts - typically 2 weeks.
- All O-rings are made to order ensuring a new cure date.
- No tooling charges for BS1806 and BS4518 standard sizes.
- All O-rings manufactured and inspected to ISO 3601-3 (BS6442) Grade 'S'.
- PPE is accredited to quality standard BS EN ISO9001:2000 and aerospace quality standard AS9100 Rev B.



Above: Acceptance letters from the Ministry of Defence for PPE elastomer materials. Copies available on request.



Medium ACN Nitrile (NBR)

Material Code	PPE Code	NATO Stock No.	
MN60	N63B	5331 99 770	5000 – 5097
MN70	N73B	5331 99 108	9701
		5331 99 255	4630
		5331 99 255	7702
		5331 99 325	2262
		5331 99 352	6580
		5331 99 441	9938
		5331 99 560	6792
		5331 99 700	8288
		5331 99 701	2571
		5331 99 732	3763
	N73H	5331 99 769	9854
		5331 99 770	5098 – 5296
		5331 99 770	5965 – 6128
		5331 99 780	8016
		5331 99 785	0439
		5331 99 853	6413
		5331 99 888	8620
		5331 99 894	0349
		5331 99 250	7496
		5331 99 250	7497
MN80	N83B	5331 99 251	4723
		5331 99 277	5835
		5331 99 420	5528
		5331 99 641	4028
		5331 99 700	4878
		5331 99 770	5297 – 5460
		5331 99 782	1909
		5331 99 793	8760
		5331 99 809	4226
		5331 99 062	5665
MN90	N93B	5331 99 299	9236
		5331 99 529	0847
		5331 99 577	2196
		5331 99 770	5461 – 5573
		5331 99 831	2424

High ACN Nitrile (NBR)

Material Code	PPE Code	NATO Stock No.	
HN60	N63H	5331 99 770	5574 – 5640
HN70	N73H	5331 99 547	6289
		5331 99 770	5641 – 5734
		5331 99 777	1487
		5331 99 777	1489 - 1490
		5331 99 777	1502
		5331 99 777	1510
		5331 99 777	1526 - 1527
		5331 99 794	2298
		5331 99 126	9489
		5331 99 282	7316
HN90	N93H	5331 99 300	2594
		5331 99 398	6622
		5331 99 547	7777
		5331 99 770	5735 – 5791
		5331 99 777	1503
		5331 99 777	1503

Hydrogenated Nitrile (HNBR)

PPE Code	Hardness (IRHD)
Z73B	70
Z83B	80
Z93B	90

Packaging

All PPE O-rings manufactured to NES 337 requirements are individually bagged in opaque bags.

Full identification details are clearly printed directly onto the bags which conform with Level L Package Requirements of packaging specification CPU/PIP/112.



Find PPE O-ring parts listed on the ISIS system, under the **NCAGE reference number U6183**.

An up-to-date list of part numbers and material datasheets can be found on our website: **www.prepol.com**



Fluorocarbon (FKM)

Material Code	PPE Code	NATO Stock No.	
FC70	V72G	5331 99 051	7439
		5331 99 051	8562
		5331 99 052	0375
		5331 99 096	1840
		5331 99 126	2628
		5331 99 126	6881
		5331 99 131	0968
		5331 99 168	8622
		5331 99 212	6006
		5331 99 215	1771
		5331 99 255	9596 - 9597
		5331 99 256	1660
		5331 99 257	2974
		5331 99 257	2976
		5331 99 301	1061
		5331 99 301	8877
		5331 99 327	8009
		5331 99 350	5361
		5331 99 363	2525
		5331 99 364	0036
		5331 99 400	1528
		5331 99 406	3518
		5331 99 406	7428
		5331 99 416	5740
		5331 99 462	3793
		5331 99 500	6222
		5331 99 513	7071
		5331 99 517	3594
		5331 99 535	7304
		5331 99 535	7644
		5331 99 535	8524
		5331 99 549	1946
		5331 99 567	0572
		5331 99 570	6322
		5331 99 598	5810
		5331 99 598	7411
		5331 99 605	7779
		5331 99 641	8941
		5331 99 648	0425
		5331 99 660	7589
		5331 99 663	4533
		5331 99 700	9084
		5331 99 701	7230
		5331 99 701	8376
		5331 99 701	8823
		5331 99 702	0957
		5331 99 702	2531
		5331 99 728	3539

Fluorocarbon (FKM) *continued...*

Material Code	PPE Code	NATO Stock No.	
FC70	V72G	5331 99 732	1350
		5331 99 732	1352 - 1355
		5331 99 732	1371 - 1372
		5331 99 732	1377
		5331 99 732	1381 - 1382
		5331 99 732	1385
		5331 99 732	1391
		5331 99 732	1394
		5331 99 732	1402
		5331 99 743	2588
		5331 99 744	8259
		5331 99 753	0465
		5331 99 770	5792 - 5964
		5331 99 770	6129 - 6136
		5331 99 772	8483
		5331 99 772	8504
		5331 99 772	8508
		5331 99 772	8510 - 8517
		5331 99 773	5649
		5331 99 777	1498
		5331 99 781	6315
		5331 99 795	2569
		5331 99 803	6412
		5331 99 810	5703
		5331 99 820	9252
		5331 99 830	8676
		5331 99 842	1878
		5331 99 861	0082
		5331 99 870	5627
		5331 99 902	1301
		5331 99 922	3693
		5331 99 930	7669
		5331 99 944	0645
		5331 99 951	8542
		5331 99 968	0738



Precision Polymer Engineering Ltd

Greenbank Road, Blackburn, BB1 3EA, England

Tel: +44 (0)1254 295400

Fax: +44 (0)1254 680182

Email: sales@prepol.com

Web: www.prepol.com

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