



ASTM D2000 M2 HK814 A1-10 B38 EF31 EO78

Imperial FKM 75 ShA O-rings

Fluorocarbon Rubber

FKM O-rings have excellent chemical resistance and can be used at temperature range of between -15°C and 200°C. Although generally more expensive than NBR (Nitrile) O-rings, FKM has found wide acceptance in the aircraft, automotive and chemical industries.

The terms FPM, FKM and Viton® can lead to incorrect interpretations. These designations stand for one single base material: fluorocarbon rubber. Viton® however is the registered trademark of the Chemours company.

RS Components is also able to supply specially compounded FKM O-rings meeting Norsok M710, FDA, USP Class VI, UL94 V0, EN549, Viton® A, B, G, GF, GLT, GFLT, ETP standards on special request. Please contact us for further information.

Colour: Black

Operating temperature range: -15°C to 200°C

Physical Property	Test Method	Units	Typical Values
Hardness	ASTM D 2240	Shore A	79
Tensile Strength	ASTM D 412	Mpa	14
Elongation	ASTM D 412	%	175
Modulus at 100%	ASTM D 412	Mpa	6
Specific Gravity	ASTM D 297	g/cm ³	1.85
Compression Set 22h / 200°C	ASTM D 395 B	%	22
Low Temperature Resistance	ASTM D 1329 - TR10	°C	-17

Aging Property	Test Method	Time (h)	Temperature (°C)	Hardness	Tensile Strength (%)	Ultimate Elongation (%)	Volume (%)
Air	ASTM D 573	70	250	1	-13	-2	-
ASTM 101 Service Liquid	ASTM D 471	70	200	-10	-15	-6	13
ASTM Fuel C	ASTM D 471	70	23	-4	-21	-7	4

Chemical resistance:

- Mineral oil and grease, ASTM oil No. 1, and IRM 902 and IRM 903 oils
- Non-flammable hydraulic fluids (HFD)
- Silicone oil and grease
- Mineral and vegetable oil and grease
- Aliphatic hydrocarbons (butane, propane, natural gas)
- Aromatic hydrocarbons (benzene, toluene)
- Chlorinated hydrocarbons (trichloroethylene and carbon tetrachloride)
- Gasoline (including high alcohol content)
- High vacuum
- Very good ozone, weather and aging resistance

Not compatible with:

- Glycol based brake fluids
- Ammonia gas, amines, alkalis
- Superheated steam
- Low molecular weight organic acids (formic and acetic acids)

RS Article Number	Millimetres (mm)				Inches (")				Nominal (Inch Dimensions)		Standard Reference
	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Internal Diameter	Cross Section	
2576143	2.57	0.13	1.78	0.08	0.101	0.005	0.07	0.003	3/32	1/16	AS568-5 and BS 1806-5
2576145	33.05	0.36	1.78	0.08	1.301	0.014	0.07	0.003	1 19/64	1/16	AS568-27 and BS 1806-27
2576211	47.35	0.46	1.78	0.08	1.864	0.018	0.07	0.003	1 55/64	1/16	AS568-32 and BS 1806-32
2576213	60.05	0.55	1.78	0.08	2.364	0.021	0.07	0.003	2 23/64	1/16	AS568-36 and BS 1806-36
2576214	66.4	0.59	1.78	0.08	2.614	0.023	0.07	0.003	2 39/64	1/16	AS568-38 and BS 1806-38

2576215	69.57	0.62	1.78	0.08	2.738	0.024	0.07	0.003	2 47/64	1/16	AS568-39 and BS 1806-39
2576216	82.27	0.7	1.78	0.08	3.238	0.027	0.07	0.003	3 1/4	1/16	AS568-42 and BS 1806-42
2576152	114.02	0.92	1.78	0.08	4.488	0.036	0.07	0.003	4 31/64	1/16	AS568-47 and BS 1806-47
2576153	126.72	1.01	1.78	0.08	4.988	0.039	0.07	0.003	5	1/16	AS568-49 and BS 1806-49
2576217	31.42	0.35	2.62	0.09	1.237	0.013	0.103	0.004	1 15/64	3/32	AS568-124 and BS 1806-124
2576218	32.99	0.36	2.62	0.09	1.298	0.014	0.103	0.004	1 5/16	3/32	AS568-125 and BS 1806-125
2576219	37.77	0.4	2.62	0.09	1.487	0.015	0.103	0.004	1 1/2	3/32	AS568-128 and BS 1806-128
2576220	42.52	0.43	2.62	0.09	1.674	0.016	0.103	0.004	1 11/16	3/32	AS568-131 and BS 1806-131
2576221	55.25	0.52	2.62	0.09	2.175	0.02	0.103	0.004	2 11/64	3/32	AS568-139 and BS 1806-139
2576222	61.6	0.56	2.62	0.09	2.425	0.022	0.103	0.004	2 27/64	3/32	AS568-143 and BS 1806-143
2576154	63.17	0.57	2.62	0.09	2.487	0.022	0.103	0.004	2 31/64	3/32	AS568-144 and BS 1806-144
2576156	69.52	0.62	2.62	0.09	2.737	0.024	0.103	0.004	2 47/64	3/32	AS568-148 and BS 1806-148
2576157	72.69	0.64	2.62	0.09	2.861	0.025	0.103	0.004	2 7/8	3/32	AS568-150 and BS 1806-150
2576158	88.57	0.75	2.62	0.09	3.487	0.029	0.103	0.004	3 1/2	3/32	AS568-153 and BS 1806-153

2576159	152.07	1.17	2.62	0.09	5.987	0.046	0.103	0.004	6	3/32	AS568-163 and BS 1806- 163
2576160	164.77	1.26	2.62	0.09	6.487	0.049	0.103	0.004	6 31/64	3/32	AS568-165 and BS 1806- 165
2576161	171.12	1.3	2.62	0.09	6.737	0.051	0.103	0.004	6 3/4	3/32	AS568-166 and BS 1806- 166
2576162	196.52	1.47	2.62	0.09	7.737	0.057	0.103	0.004	7 3/4	3/32	AS568-170 and BS 1806- 170
2576146	5.94	0.16	3.53	0.1	0.233	0.006	0.138	0.004	15/64	1/8	AS568-202 and BS 1806- 202
2576163	126.59	1	3.53	0.1	4.983	0.039	0.138	0.004	4 63/64	1/8	AS568-250 and BS 1806- 250
2576164	129.77	1.03	3.53	0.1	5.109	0.04	0.138	0.004	5 7/64	1/8	AS568-251 and BS 1806- 251
2576165	136.12	1.07	3.53	0.1	5.359	0.042	0.138	0.004	5 3/8	1/8	AS568-253 and BS 1806- 253
2576166	158.34	1.22	3.53	0.1	6.233	0.048	0.138	0.004	6 15/64	1/8	AS568-259 and BS 1806- 259
2576167	164.69	1.26	3.53	0.1	6.483	0.049	0.138	0.004	6 31/64	1/8	AS568-260 and BS 1806- 260
2576223	16.81	0.24	5.33	0.13	0.661	0.009	0.209	0.005	21/32	3/16	AS568-313 and BS 1806- 313
2576168	18.42	0.25	5.33	0.13	0.725	0.009	0.209	0.005	23/32	3/16	AS568-314 and BS 1806- 314
2576169	23.16	0.29	5.33	0.13	0.911	0.011	0.209	0.005	29/32	3/16	AS568-317 and BS 1806- 317
2576170	24.77	0.3	5.33	0.13	0.975	0.011	0.209	0.005	31/32	3/16	AS568-318 and BS 1806- 318

2576171	26.34	0.31	5.33	0.13	1.037	0.012	0.209	0.005	1 1/32	3/16	AS568-319 and BS 1806- 319
2576172	29.51	0.33	5.33	0.13	1.161	0.012	0.209	0.005	1 5/32	3/16	AS568-321 and BS 1806- 321
2576173	34.29	0.37	5.33	0.13	1.35	0.014	0.209	0.005	1 11/32	3/16	AS568-324 and BS 1806- 324
2576174	37.47	0.4	5.33	0.13	1.475	0.015	0.209	0.005	1 15/32	3/16	AS568-325 and BS 1806- 325
2576175	40.64	0.41	5.33	0.13	1.6	0.016	0.209	0.005	1 19/32	3/16	AS568-326 and BS 1806- 326
2576176	53.34	0.5	5.33	0.13	2.1	0.019	0.209	0.005	2 3/32	3/16	AS568-330 and BS 1806- 330
2576178	56.52	0.53	5.33	0.13	2.225	0.02	0.209	0.005	2 7/32	3/16	AS568-331 and BS 1806- 331
2576179	59.69	0.55	5.33	0.13	2.35	0.021	0.209	0.005	2 11/32	3/16	AS568-332 and BS 1806- 332
2576180	62.87	0.57	5.33	0.13	2.475	0.022	0.209	0.005	2 15/32	3/16	AS568-333 and BS 1806- 333
2576181	75.57	0.66	5.33	0.13	2.975	0.025	0.209	0.005	2 31/32	3/16	AS568-337 and BS 1806- 337
2576182	78.74	0.68	5.33	0.13	3.1	0.026	0.209	0.005	3 3/32	3/16	AS568-338 and BS 1806- 338
2576184	81.92	0.7	5.33	0.13	3.225	0.027	0.209	0.005	3 7/32	3/16	AS568-339 and BS 1806- 339
2576185	88.27	0.74	5.33	0.13	3.475	0.029	0.209	0.005	3 1/2	3/16	AS568-341 and BS 1806- 341
2576186	85.34	0.73	1.78	0.08	3.359	0.028	0.07	0.003	3 3/8	1/16	BS 1806-534
2576187	91.7	0.77	1.78	0.08	3.61	0.03	0.07	0.003	3 39/64	1/16	BS 1806-536

2576188	98.05	0.81	1.78	0.08	3.86	0.031	0.07	0.003	3 55/64	1/16	BS 1806-538
2576189	117.1	0.94	1.78	0.08	4.61	0.037	0.07	0.003	4 39/64	1/16	BS 1806-544
2576190	135.76	1.07	1.78	0.08	5.344	0.042	0.07	0.003	5 11/32	1/16	BS 1806-550
2576207	1.78	0.13	1.02	0.08	0.07	0.005	0.04	0.003	5/64	3/64	BS 1806-60
2576147	9.9	0.19	2.62	0.09	0.389	0.007	0.103	0.004	25/64	3/32	BS 1806-613
2576148	11.91	0.2	2.62	0.09	0.468	0.007	0.103	0.004	15/32	3/32	BS 1806-614
2576191	80.6	0.69	2.62	0.09	3.173	0.027	0.103	0.004	3 11/64	3/32	BS 1806-642
2576150	15.88	0.23	2.62	0.09	0.625	0.009	0.103	0.004	5/8	3/32	BS 1806-809
2576192	41.28	0.42	3.53	0.1	1.625	0.016	0.138	0.004	1 5/8	1/8	BS 1806-825
2576193	44.45	0.44	3.53	0.1	1.75	0.017	0.138	0.004	1 3/4	1/8	BS 1806-827
2576194	46.04	0.45	3.53	0.1	1.812	0.017	0.138	0.004	1 13/16	1/8	BS 1806-828
2576195	47.62	0.46	3.53	0.1	1.874	0.018	0.138	0.004	1 7/8	1/8	BS 1806-829
2576196	49.2	0.47	3.53	0.1	1.937	0.018	0.138	0.004	1 15/16	1/8	BS 1806-830
2576197	50.8	0.49	3.53	0.1	2	0.019	0.138	0.004	2	1/8	BS 1806-831
2576198	52.4	0.5	3.53	0.1	2.062	0.019	0.138	0.004	2 1/16	1/8	BS 1806-832
2576200	55.56	0.52	3.53	0.1	2.187	0.02	0.138	0.004	2 3/16	1/8	BS 1806-834
2576201	58.74	0.54	3.53	0.1	2.312	0.021	0.138	0.004	2 5/16	1/8	BS 1806-836
2576202	60.32	0.55	3.53	0.1	2.374	0.021	0.138	0.004	2 3/8	1/8	BS 1806-837
2576203	63.5	0.57	3.53	0.1	2.5	0.022	0.138	0.004	2 1/2	1/8	BS 1806-839
2576204	71.44	0.63	3.53	0.1	2.812	0.024	0.138	0.004	2 13/16	1/8	BS 1806-844
2576205	74.6	0.65	3.53	0.1	2.937	0.025	0.138	0.004	2 15/16	1/8	BS 1806-846
2576144	4.7	0.15	1.42	0.08	0.185	0.005	0.055	0.003	3/16	1/16	BS 1806-901
2576208	8.92	0.18	1.83	0.08	0.351	0.007	0.072	0.003	23/64	23/32	BS 1806-904
2576209	10.52	0.19	1.83	0.08	0.414	0.007	0.072	0.003	27/64	23/32	BS 1806-905
2576210	11.89	0.2	1.98	0.08	0.468	0.007	0.077	0.003	15/32	5/64	BS 1806-906
2576151	16.36	0.24	2.21	0.08	0.644	0.009	0.087	0.003	41/64	3/32	BS 1806-908
2576224	26.59	0.31	2.95	0.09	1.046	0.012	0.116	0.004	1 1/16	1/8	BS 1806-914
2576225	29.74	0.34	2.95	0.09	1.17	0.013	0.116	0.004	1 11/64	1/8	BS 1806-916