



ASTM D2000 M2 HK814 A1-10 B38 EF31 E078

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	
1965907	0.74	0.12	1.02	0.08	0.029	0.005	0.04	0.003	1/32	1/32	AS568:1
1965910	1.07	0.12	1.27	0.08	0.042	0.005	0.05	0.003	3/64	3/64	AS568:2
1965911	1.42	0.12	1.52	0.08	0.056	0.005	0.06	0.003	1/16	1/16	AS568:3
1965912	1.78	0.13	1.78	0.08	0.07	0.005	0.07	0.003	5/64	1/16	AS568:4
1965918	10.82	0.2	1.78	0.08	0.426	0.008	0.07	0.003	7/16	1/16	AS568:13
1965919	12.42	0.21	1.78	0.08	0.489	0.008	0.07	0.003	0.5	1/16	AS568:14
1965921	14	0.22	1.78	0.08	0.551	0.009	0.07	0.003	9/16	1/16	AS568:15
1965922	15.6	0.23	1.78	0.08	0.614	0.009	0.07	0.003	5/8	1/16	AS568:16
1965923	17.17	0.24	1.78	0.08	0.676	0.009	0.07	0.003	11/16	1/16	AS568:17
1965924	18.77	0.26	1.78	0.08	0.739	0.01	0.07	0.003	3/4	1/16	AS568:18
1965925	20.35	0.27	1.78	0.08	0.801	0.011	0.07	0.003	13/16	1/16	AS568:19
1965926	21.95	0.28	1.78	0.08	0.864	0.011	0.07	0.003	7/8	1/16	AS568:20
1965927	23.52	0.29	1.78	0.08	0.926	0.011	0.07	0.003	15/16	1/16	AS568:21
1965928	26.7	0.31	1.78	0.08	1.051	0.012	0.07	0.003	1 1/16	1/16	AS568:23

1965929	28.3	0.33	1.78	0.08	1.114	0.013	0.07	0.003	1 1/8	1/16	AS568:24
1965930	29.87	0.34	1.78	0.08	1.176	0.013	0.07	0.003	1 3/16	1/16	AS568:25
1965931	31.47	0.35	1.78	0.08	1.239	0.014	0.07	0.003	1 1/4	1/16	AS568:26
1965932	34.65	0.37	1.78	0.08	1.364	0.015	0.07	0.003	1 3/8	1/16	AS568:28
1965933	37.82	0.39	1.78	0.08	1.489	0.015	0.07	0.003	1 1/2	1/16	AS568:29
1965934	41	0.42	1.78	0.08	1.614	0.017	0.07	0.003	1 5/8	1/16	AS568:30
1965935	44.17	0.44	1.78	0.08	1.739	0.017	0.07	0.003	1 3/4	1/16	AS568:31
1965937	50.52	0.48	1.78	0.08	1.989	0.019	0.07	0.003	2	1/16	AS568:33
1965938	53.7	0.51	1.78	0.08	2.114	0.02	0.07	0.003	2 1/8	1/16	AS568:34
1965939	56.87	0.53	1.78	0.08	2.239	0.021	0.07	0.003	2 1/4	1/16	AS568:35
1965940	63.22	0.57	1.78	0.08	2.489	0.022	0.07	0.003	2 1/2	1/16	AS568:37
1965941	72.75	0.64	1.78	0.08	2.864	0.025	0.07	0.003	2 7/8	1/16	AS568:40
1965943	88.62	0.75	1.78	0.08	3.489	0.03	0.07	0.003	3 1/2	1/16	AS568:43
1965944	94.97	0.79	1.78	0.08	3.739	0.031	0.07	0.003	3 3/4	1/16	AS568:44
1965945	101.32	0.83	1.78	0.08	3.989	0.033	0.07	0.003	4	1/16	AS568:45
1965946	2.84	0.13	2.62	0.09	0.112	0.005	0.103	0.004	1/8	3/32	AS568:104
1965947	4.42	0.15	2.62	0.09	0.174	0.006	0.103	0.004	3/16	3/32	AS568:106
1965948	5.23	0.15	2.62	0.09	0.206	0.006	0.103	0.004	7/32	3/32	AS568:107
1965949	6.02	0.16	2.62	0.09	0.237	0.006	0.103	0.004	1/4	3/32	AS568:108
1965950	7.59	0.17	2.62	0.09	0.299	0.007	0.103	0.004	5/16	3/32	AS568:109
1965953	20.3	0.27	2.62	0.09	0.799	0.011	0.103	0.004	13/16	3/32	AS568:117
1965954	21.89	0.28	2.62	0.09	0.862	0.011	0.103	0.004	7/8	3/32	AS568:118
1965955	23.47	0.29	2.62	0.09	0.924	0.011	0.103	0.004	15/16	3/32	AS568:119
1965956	25.07	0.3	2.62	0.09	0.987	0.012	0.103	0.004	1	3/32	AS568:120
1965957	26.64	0.31	2.62	0.09	1.049	0.012	0.103	0.004	1 1/16	3/32	AS568:121
1965959	28.24	0.33	2.62	0.09	1.112	0.013	0.103	0.004	1 1/8	3/32	AS568:122
1965960	29.82	0.34	2.62	0.09	1.174	0.013	0.103	0.004	1 3/16	3/32	AS568:123
1965961	34.59	0.37	2.62	0.09	1.362	0.015	0.103	0.004	1 3/8	3/32	AS568:126
1965962	36.17	0.38	2.62	0.09	1.424	0.015	0.103	0.004	1 7/16	3/32	AS568:127
1965963	39.34	0.4	2.62	0.09	1.549	0.016	0.103	0.004	1 9/16	3/32	AS568:129
1965965	40.94	0.42	2.62	0.09	1.612	0.017	0.103	0.004	1 5/8	3/32	AS568:130
1965966	44.12	0.44	2.62	0.09	1.737	0.017	0.103	0.004	1 3/4	3/32	AS568:132
1965967	45.69	0.45	2.62	0.09	1.799	0.018	0.103	0.004	1 13/16	3/32	AS568:133
1965968	47.29	0.46	2.62	0.09	1.862	0.018	0.103	0.004	1 7/8	3/32	AS568:134
1965969	48.9	0.47	2.62	0.09	1.925	0.019	0.103	0.004	1 15/16	3/32	AS568:135
1965971	50.47	0.48	2.62	0.09	1.987	0.019	0.103	0.004	2	3/32	AS568:136
1965972	52.07	0.49	2.62	0.09	2.05	0.019	0.103	0.004	2 1/16	3/32	AS568:137
1965973	53.64	0.51	2.62	0.09	2.112	0.02	0.103	0.004	2 1/8	3/32	AS568:138
1965974	56.82	0.53	2.62	0.09	2.237	0.021	0.103	0.004	2 1/4	3/32	AS568:140
1965975	58.42	0.54	2.62	0.09	2.3	0.021	0.103	0.004	2 5/16	3/32	AS568:141
1965976	59.99	0.55	2.62	0.09	2.362	0.022	0.103	0.004	2 3/8	3/32	AS568:142

1965977	64.77	0.58	2.62	0.09	2.55	0.023	0.103	0.004	2 9/16	3/32	AS568:145
1965978	67.95	0.61	2.62	0.09	2.675	0.024	0.103	0.004	2 11/16	3/32	AS568:147
1965979	71.12	0.63	2.62	0.09	2.8	0.025	0.103	0.004	2 13/16	3/32	AS568:149
1965980	75.87	0.66	2.62	0.09	2.987	0.026	0.103	0.004	3	3/32	AS568:151
1965981	94.92	0.79	2.62	0.09	3.737	0.031	0.103	0.004	3 3/4	3/32	AS568:154
1965982	101.27	0.83	2.62	0.09	3.987	0.033	0.103	0.004	4	3/32	AS568:155
1965983	107.62	0.88	2.62	0.09	4.237	0.035	0.103	0.004	4 1/4	3/32	AS568:156
1965984	113.97	0.92	2.62	0.09	4.487	0.036	0.103	0.004	4 1/2	3/32	AS568:157
1965985	120.32	0.96	2.62	0.09	4.737	0.038	0.103	0.004	4 3/4	3/32	AS568:158
1965987	133.02	1.05	2.62	0.09	5.237	0.041	0.103	0.004	5 1/4	3/32	AS568:160
1965988	139.37	1.09	2.62	0.09	5.487	0.043	0.103	0.004	5 1/2	3/32	AS568:161
1965990	4.34	0.15	3.53	0.1	0.171	0.006	0.139	0.004	3/16	1/8	AS568:201
1965991	7.52	0.17	3.53	0.1	0.296	0.007	0.139	0.004	5/16	1/8	AS568:203
1965992	9.12	0.18	3.53	0.1	0.359	0.007	0.139	0.004	3/8	1/8	AS568:204
1965993	10.69	0.2	3.53	0.1	0.421	0.008	0.139	0.004	7/16	1/8	AS568:205
1965994	12.29	0.21	3.53	0.1	0.484	0.008	0.139	0.004	1/2	1/8	AS568:206
1965995	13.87	0.22	3.53	0.1	0.546	0.009	0.139	0.004	9/16	1/8	AS568:207
1965996	15.47	0.23	3.53	0.1	0.609	0.009	0.139	0.004	5/8	1/8	AS568:208
1965997	17.04	0.24	3.53	0.1	0.671	0.009	0.139	0.004	11/16	1/8	AS568:209
1965998	20.22	0.27	3.53	0.1	0.796	0.011	0.139	0.004	13/16	1/8	AS568:211
1965999	21.82	0.28	3.53	0.1	0.859	0.011	0.139	0.004	7/8	1/8	AS568:212
1966000	23.39	0.29	3.53	0.1	0.921	0.011	0.139	0.004	15/16	1/8	AS568:213
1966001	24.99	0.3	3.53	0.1	0.984	0.012	0.139	0.004	1	1/8	AS568:214
1966003	26.57	0.31	3.53	0.1	1.046	0.012	0.139	0.004	1 1/16	1/8	AS568:215
1966004	28.17	0.32	3.53	0.1	1.109	0.013	0.139	0.004	1 1/8	1/8	AS568:216
1966005	29.74	0.34	3.53	0.1	1.171	0.013	0.139	0.004	1 3/16	1/8	AS568:217
1966006	31.34	0.35	3.53	0.1	1.234	0.014	0.139	0.004	1 1/4	1/8	AS568:218
1966007	32.92	0.36	3.53	0.1	1.296	0.014	0.139	0.004	1 5/16	1/8	AS568:219
1966008	34.52	0.37	3.53	0.1	1.359	0.015	0.139	0.004	1 3/8	1/8	AS568:220
1966009	36.09	0.38	3.53	0.1	1.421	0.015	0.139	0.004	1 7/16	1/8	AS568:221
1966010	37.69	0.39	3.53	0.1	1.484	0.015	0.139	0.004	1 1/2	1/8	AS568:222
1966011	40.87	0.42	3.53	0.1	1.609	0.017	0.139	0.004	1 5/8	1/8	AS568:223
1966012	44.04	0.44	3.53	0.1	1.734	0.017	0.139	0.004	1 3/4	1/8	AS568:224
1966013	47.22	0.46	3.53	0.1	1.859	0.018	0.139	0.004	1 7/8	1/8	AS568:225
1966014	50.39	0.48	3.53	0.1	1.984	0.019	0.139	0.004	2	1/8	AS568:226
1966015	53.57	0.51	3.53	0.1	2.109	0.02	0.139	0.004	2 1/8	1/8	AS568:227
1966016	56.74	0.53	3.53	0.1	2.234	0.021	0.139	0.004	2 1/4	1/8	AS568:228
1966017	59.92	0.55	3.53	0.1	2.359	0.022	0.139	0.004	2 3/8	1/8	AS568:229
1966019	63.09	0.57	3.53	0.1	2.484	0.022	0.139	0.004	2 1/2	1/8	AS568:230
1966021	66.27	0.59	3.53	0.1	2.609	0.023	0.139	0.004	2 5/8	1/8	AS568:231
1966022	69.44	0.62	3.53	0.1	2.734	0.024	0.139	0.004	2 3/4	1/8	AS568:232

1966023	72.62	0.64	3.53	0.1	2.859	0.025	0.139	0.004	2 7/8	1/8	AS568:233
1966025	75.79	0.66	3.53	0.1	2.984	0.026	0.139	0.004	3	1/8	AS568:234
1966026	78.97	0.68	3.53	0.1	3.109	0.027	0.139	0.004	3 1/8	1/8	AS568:235
1966027	82.14	0.7	3.53	0.1	3.234	0.028	0.139	0.004	3 1/4	1/8	AS568:236
1966028	85.32	0.72	3.53	0.1	3.359	0.028	0.139	0.004	3 3/8	1/8	AS568:237
1966029	88.49	0.75	3.53	0.1	3.484	0.03	0.139	0.004	3 1/2	1/8	AS568:238
1966031	91.67	0.77	3.53	0.1	3.609	0.03	0.139	0.004	3 5/8	1/8	AS568:239
1966032	94.84	0.79	3.53	0.1	3.734	0.031	0.139	0.004	3 3/4	1/8	AS568:240
1966033	98.02	0.81	3.53	0.1	3.859	0.032	0.139	0.004	3 7/8	1/8	AS568:241
1966034	101.19	0.83	3.53	0.1	3.984	0.033	0.139	0.004	4	1/8	AS568:242
1966035	104.37	0.85	3.53	0.1	4.109	0.033	0.139	0.004	4 1/8	1/8	AS568:243
1966036	107.54	0.88	3.53	0.1	4.234	0.035	0.139	0.004	4 1/4	1/8	AS568:244
1966037	110.72	0.9	3.53	0.1	4.359	0.035	0.139	0.004	4 3/8	1/8	AS568:245
1966038	113.89	0.92	3.53	0.1	4.484	0.036	0.139	0.004	4 1/2	1/8	AS568:246
1966039	117.07	0.94	3.53	0.1	4.609	0.037	0.139	0.004	4 5/8	1/8	AS568:247
1966040	132.94	1.05	3.53	0.1	5.234	0.041	0.139	0.004	5 1/4	1/8	AS568:252
1966041	145.64	1.13	3.53	0.1	5.734	0.044	0.139	0.004	5 3/4	1/8	AS568:256
1966042	151.99	1.17	3.53	0.1	5.984	0.046	0.139	0.004	6	1/8	AS568:258
1966043	171.04	1.3	3.53	0.1	6.734	0.051	0.139	0.004	6 3/4	1/8	AS568:261
1966044	202.79	1.51	3.53	0.1	7.984	0.059	0.139	0.004	8	1/8	AS568:266
1966045	215.49	1.59	3.53	0.1	8.484	0.063	0.139	0.004	8 1/2	1/8	AS568:268
1966047	221.84	1.63	3.53	0.1	8.734	0.064	0.139	0.004	8 3/4	1/8	AS568:269
1966048	253.59	1.84	3.53	0.1	9.984	0.072	0.139	0.004	10	1/8	AS568:274
1966049	266.29	1.92	3.53	0.1	10.484	0.076	0.139	0.004	10 1/2	1/8	AS568:275
1966050	304.39	2.17	3.53	0.1	11.984	0.085	0.139	0.004	12	1/8	AS568:278
1966051	355.19	2.49	3.53	0.1	13.984	0.098	0.139	0.004	14	1/8	AS568:280
1966053	380.59	2.65	3.53	0.1	14.984	0.104	0.139	0.004	15	1/8	AS568:281
1966054	43.82	0.44	5.33	0.13	1.725	0.017	0.21	0.005	1 3/4	3/16	AS568:327
1966055	46.99	0.46	5.33	0.13	1.85	0.018	0.21	0.005	1 7/8	3/16	AS568:328
1966056	69.22	0.61	5.33	0.13	2.725	0.024	0.21	0.005	2 3/4	3/16	AS568:335
1966057	107.32	0.87	5.33	0.13	4.225	0.034	0.21	0.005	4 1/4	3/16	AS568:347
1966058	110.49	0.9	5.33	0.13	4.35	0.035	0.21	0.005	4 3/8	3/16	AS568:348
1966059	129.54	1.02	5.33	0.13	5.1	0.04	0.21	0.005	5 1/8	3/16	AS568:354
1966060	148.59	1.15	5.33	0.13	5.85	0.045	0.21	0.005	5 7/8	3/16	AS568:360
1966061	221.62	1.63	5.33	0.13	8.725	0.064	0.21	0.005	8 3/4	3/16	AS568:372
1966062	304.17	2.17	5.33	0.13	11.975	0.085	0.21	0.005	12	3/16	AS568:381
1965909	2.5	0.13	1.02	0.08	0.098	0.005	0.04	0.003			
1965916	8.73	0.18	1.78	0.08	0.344	0.007	0.07	0.003			
1965951	13.1	0.21	2.62	0.09	0.516	0.008	0.103	0.004			
1965952	17.86	0.25	2.62	0.09	0.703	0.01	0.103	0.004			
1965913	4.76	0.15	1.78	0.08	0.187	0.006	0.07	0.003			

1965915	7.94	0.17	1.78	0.08	0.313	0.007	0.07	0.003			
1966020	65.1	0.59	3.53	0.1	2.563	0.023	0.139	0.004			
1965989	43.69	0.44	3	0.09	1.72	0.017	0.118	0.004			